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RICHARD H. EDMONDS,
Editor and General Manager.

EDWARD INGLE, Managing Editor.

ALBERT PHENIS,
General Staff Correspondent.

Branch Offices:
New Orleans—1012 Malson Blanche.
New York—52 Broadway.
Boston—170 Summer Street.
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WHERE MUTUAL INTERESTS CONVERGE.

In the issue of the MANUFACTURERS' RECORD of March 4 was published in the Construction Department a three-line item to the effect that T. Herbert Taylor of Atlanta, Ga., desired to correspond with manufacturers of mill supplies. A week later Mr. Taylor informed a representative of the MANUFACTURERS' RECORD that it had cost him more than \$15 to answer the letters he had received as a consequence of the publication of the item. Mr. Taylor seemed impressed with the significance of the number of letters he received so promptly. His experience is like that of many other persons or firms whose names have been mentioned in the news columns or on the advertising pages of the MANUFACTURERS' RECORD, and especially in the columns devoted to the news of new undertakings of many kinds, the columns included in our Construction Department. That department is designed to bring into close touch and to keep in close touch the men in the South who are planning developmental enterprises and the men in the South and elsewhere in the country who have the means of furthering them, men who have the machinery, the building material or other supplies, or the capital called for in building cotton mills, cottonseed-oil mills, lumber plants, railways, etc.; in mineral and hydro-electric development, in drainage and irrigation, in State, county and municipal improvements, etc. That the design is pretty thoroughly realized is indicated by the experience of Mr. Taylor.

CONSERVATION SANITY.

The more one reads the recent address before the Franklin Institute by John Birkinbine on the conservation and utilization of our national resources, the more one will be impressed with the timely sanity pervading the address. It is a plea against bureaucratic hysterics and for a determination of what is proper conservation and utilization of resources. Mr. Birkinbine says:

There have been given to us by nature resources of enormous volume and value, the utilization of which has made this country great and promise for it a bright future. Our duty is to use and also to conserve; in fact, utilization is not thorough except when associated with conservation, nor is conservation effective except as a consort of utilization. The proper employment of any natural resource takes into consideration future supplies and eliminates unnecessary waste, for we cannot lavishly use our natural resources and yet maintain a supply for posterity, particularly of such as are not reproductive. It may be practicable to maintain our farming and grazing lands; to provide for a continuous application of water for transportation, irrigation, supply or power by reforestation, and by impounding reservoirs; or it may be possible by forest propagation and protection to maintain a supply of wood for future uses, for these are replenished, but we cannot renew the coal, the oil, the ores or other minerals taken from the ground.

Mr. Birkinbine then sketches quite fully the extent of our resources, protests against impressions that the growing interest in the subject of conservation is due to the theorist and the doctrinaire and against ignorance of progress already made, and in conclusion says:

Conservation of natural resources will result from calm consideration of their extent, character and possibilities, for the variety and amount at our command are blessings to be appreciated by utilizing and conserving them, and we deserve to fail as a nation if we are careless concerning these features.

But true conservation is not advanced by scareheads announcing the exhaustion of our minerals, the length of time our timber will last, the depletion of our water resources, the destruction of our soils and like dire prognostications. It is more patriotic to recognize that our national development is the result of using the resources with which God has endowed us, and to treat them as a trust, administered so that we and those who follow us will get the most good from them.

The man who plants trees is a better friend of forestry than one whose enthusiasm consists of quoting "Woodman, spare that tree."

He who converts any waste product to a useful purpose is a better conservator of resources than one who, viewing merely the quantities used, prophesies national decline.

Conservation is now popular—to have it continued so we need to study our resources as aids to progress and means for future prosperity. It must be recognized as a serious problem for the people and not as a fad. The active co-operation of the brain and brawn of the country is essential to secure the conservation and utilization of our national resources, thus maintaining and perpetuating the United States as foremost among nations.

To back up the common sense of these thoughts one should read the parable of the talents and ponder upon the fate of the individual who buried his talent in the earth. There is as much abuse in not using opportunities as there is in wasteful use of them.

CUMULATIVE EFFECTS OF SOUTHERN MATERIAL PROGRESS.

At the recent dinner of the West Virginia Society of New York former State Senator William Campbell of Charles Town did a bit of home missionary work which should be taken up by every Southerner who has an opportunity to talk to exiles from his part of the country. He could not fail to mention the credit won by West Virginians in the metropolis, but his most important thought was of the attainments of the South, had all of its sons who have succeeded elsewhere given their energies and abilities to upbuilding at home, and that in spite of the tremendous progress made by the South.

Today the true value of property in the South is greater than \$20,000,000,000. That sum is nearly three times that of the wealth of the South in 1880. The population of the South today is about 27,000,000, or 4,000,000 less than the population of the whole country in 1860, yet the South's wealth is \$4,000,000,000 or \$5,000,000,000 greater than the wealth of the whole country in 1860. What would that wealth be, had men of Southern birth remained at home during the past 30 or 40 years? Now and then attempts are made to estimate the cost of the war to the South. A reasonable approximation as to materialities may be had in considering the progress in wealth made by the South in the 10 years before the war, the progress that might have been expected naturally in the next 10 years had war not intervened, and the actual condition in 1870. Between 1850 and 1860 there was an increase in the true value of real and personal property in the South from \$2,847,000,000 to \$6,286,000,000, or at the rate of 121 per cent., and in the rest of the country from \$4,289,000,000 to \$9,873,000,000, or at the rate of 130 per cent. Had there been no war, and had the rate of increase not tended to be cumulative, one might have expected the true value of real and personal property to increase by 1870 in the rest of the country to at least \$22,708,000,000 and in the South to at least \$13,892,000,000. As a matter of fact, the census of 1870 showed that the increase in the rest of the country had been to \$25,667,000,000, while in the South the true value of real and personal property had decreased by nearly \$2,000,000,000 to \$4,401,000,000. The difference between that \$4,401,000,000 and the \$13,892,000,000 that might have been expected had there been no war, a difference of \$9,500,000,000 in round numbers, is, we believe, fairly within the figures representing the immediate material cost of the war to the South. That does not include the incalculable loss of probably 250,000 of the flower of Southern manhood killed or crippled for life and the loss through the burden of the pension system and other extraordinary national expenses consequent upon the war.

But even the aggregate of those losses is hardly equal the loss sustained by the South in the migration from its borders between 1865 and 1900 of at least 2,500,000 of its native-born whites. They went to all quarters of the country, and it is only necessary to scan casually great achievements in many lines of productive enterprise to know how successfully they have seized opportunities given them or made by them in distant parts and to realize what the South would be today had they remained at home. To be sure, in the earlier period of this migration such opportunities did not present themselves in the South, not only exhausted by four years of war, but stripped of the material means of development. But, as Mr. Campbell emphasized, the South has made most notable progress in spite of the loss of its native-born. It is gratifying to know, as might have been expected, that progress has been marked not only by a checking of the migration from the South, but by a steadily increasing influx of capital in brain, muscle and money into the South. How could it be otherwise in the face of the facts about the South which the MANUFACTURERS' RECORD has been publishing for more than a quarter of a century, those facts summarized by it a few months ago in its review of Southern progress since 1880? Some of the increases in that period have been:

Population, from 16,369,960 to 26,834,705, or by 10,464,745, equal to 63.9 per cent.

True value of property, from \$7,505,000,000 to \$20,073,686,216, or by \$12,568,686,216, equal to 167 per cent.

Capital in manufactures, from \$257,244,564 to \$2,100,000,000, or by \$1,842,755,436, equal to 716.6 per cent.

Products of manufactures, from \$457,454,777 to \$2,600,000,000, or by \$2,142,545,223, equal to 468.9 per cent.

Capital in cotton mills, from \$21,000,000 to \$266,500,000, or by \$245,500,000, equal to 1169 per cent.

Active spindles in cotton mills, from 667,754 to 10,443,761, or by 9,776,007, equal to 1464 per cent.

Active looms in cotton mills, from 14,323 to 222,539, or by 208,216, equal to 1453 per cent.

Cotton used, from 108,694,889 pounds to 1,059,519,893 pounds, or by 950,825,004 pounds, equal to 875 per cent.

Capital in cotton-oil mills, from \$3,800,000 to \$90,000,000, or by \$86,200,000, equal to 2268 per cent.

Pig-iron produced, from 397,301 tons to 3,445,221 tons, or by 3,047,920 tons, equal to 767 per cent.

Coke made, from 372,436 tons to 9,289,471 tons, or by 8,917,035 tons, equal to 2394 per cent.

Value of lumber products, from \$39,000,000 to \$365,000,000, or by \$326,000,000, equal to 836 per cent.

Lumber cut, from 3,410,294,000 feet to 19,303,983,000 feet, or by 15,893,680,000 feet, equal to 466 per cent.

Value of farm products, from \$660,000,000 to \$2,225,000,000, or by \$1,565,000,000, equal to 237 per cent.

Bales of cotton raised, from 5,723,934 to 10,582,966, or by 4,859,032 bales, equal to 85 per cent.

Value of the cotton crop, not including seed, from \$312,303,000 to \$614,034,000, or by \$301,731,000, equal to 96 per cent.

Corn, wheat and oats raised, from 577,328,440 bushels to 818,318,000 bushels, or by 240,780,560 bushels, equal to 41 per cent.

Value of mineral products, from \$13,817,930 to \$286,818,347, or by \$273,000,417, equal to 1976 per cent.

Coal mined, from 6,037,003 tons to 94,829,835 tons, or by 88,792,832 tons, equal to 1470 per cent.

Iron ore mined, from 842,454 tons to 6,316,027 tons, or by 5,473,573 tons, equal to 649 per cent.

Petroleum produced, from 179,000 barrels to 27,239,057 barrels, or by 27,060,057 barrels, equal to 15,118 per cent.

Phosphate mined, from 190,763 tons to 2,253,198 tons, or by 2,062,435 tons, equal to 1081 per cent.

Railroad length, from 20,612 miles to 67,181 miles, or by 46,569 miles, equal to 221 per cent.

Exports from Southern ports, from \$264,905,753 to \$648,008,715, or by \$383,192,962, equal to 145 per cent.

Aggregate resources of national banks, from \$171,464,172 to \$1,100,117,838, or by \$928,653,666, equal to 541 per cent.

Capital of national banks, from \$46,688,930 to \$162,558,230, or by \$115,860,300, equal to 248 per cent.

Individual deposits in national banks, from \$64,733,249 to \$531,277,537, or by \$466,544,288, equal to 721 per cent.

Deposits in State banks, savings banks, private banks and loan and trust companies, from \$83,444,576 to \$624,752,437, or by \$541,307,861, equal to 649 per cent.

Expenditures for common schools, from \$9,796,040 to \$37,687,615, or by \$27,891,575, equal to 285 per cent.

How can the movement of productive capital and thrifty men to the South escape a steady increase in constantly expanding volume in the face of the knowledge about the vast opportunities of the South sent broadcast for years by the MANUFACTURERS' RECORD? The opportunities in the South for the wealth producer are suggested in the facts that that section has but an average of less than 34 persons to the square mile in its total area of 806,947 square miles; that of the 516,446,080 acres of its land, but 337,081,784 acres, or 65 per cent. of the whole, are in farm lands, and of the farm lands but 116,779,896 acres, or only 34 per cent., are improved; that of this land area 55,000,000 acres, an area nearly half as large again as the total area of New England, are lands needing only simple drainage to become productive of immense and valuable crops, and that other areas, as in Texas, are demonstrating their wonderful fertility as irrigation plants come into operation; that though since 1880 the South has cut 254,450,000,000 feet of lumber, or 34 per cent. of the total cut of the country, it has probably 40 per cent. of the country's merchantable timber and a greater part of the country's area which, under proper methods, will become a permanent lumber supply; that the South is producing in commercial quantities more than 50 of the leading minerals of the country; that it contains 148,466 square miles of fields of workable coal; that from the 494,190,000,000 tons of the original supply only 1,600,000,000 tons have been mined, and that probably 10,000,000,000 tons of iron ore are still to be mined before exhaustion of this supply is approached. Then there are petroleum, phosphate rock, building stones, cement materials, lead, zinc and other minerals awaiting intelligent exploitation. More than 100,000 miles of railroad are to be built before the South has such facilities equal to those in Illinois, for instance, and although the South produces between 39 and 41 per cent. of the merchandise annually exported from this country, only 33 to 35 per cent. of it yet goes through Southern ports.

Progress in manufacturing, in mining, in lumbering, in agriculture, in railroad building, in trade and in commerce has given the South the chance to spend money liberally upon municipal improvements of divers sorts and to increase its interest in education and other means of betterment. Through all has been seen by careful students an ever-increasing cumulative effect upon the mind of the country and of the world in attracting practical attention to Southern opportunities. This cumulative effect will be maintained in spite of alien attempts to use the prosperity of the South and non-alert Southerners as means of furthering selfish ends that, if successful, would check the growth of the South forever. This cumulative effect appeals ever more and more eloquently to exiled Southerners. They all had better come home.

CARNEGIEIZING EDUCATION.

In a review of the latest report of a Carnegie Foundation for the Advancement of Teaching, popularly known as the Carnegie Professorial Pension Fund, The Boston *Herald* suggests that this "philanthropy" has set in motion forces which Carnegie could not foresee and which the public and even educators themselves have not yet fully appreciated. It says:

Tempted by the opportunity to afford relief to worthy but outworn teachers, and realizing the difficulty of competing with institutions originally included in the fund, institution after institution, controlled in whole or in part by denominations, has foregone such moral or financial aid as might come in

the future from such a status, and has sought relief from courts and legislatures, so that they might win the Carnegie retiring allowance. * * * But a scrutiny of some of the names on the list of persons seeking aid, an examination of the record of effort by ineligible institutions to set aside everything else in order to get standing, and the drift of State-aided and tax-supported institutions toward reliance not on the public, but upon a non-resident donor, lead us to question whether or not this pension system will have a partially demoralizing effect.

The net impression of the situation, after reading the report, is not pleasing. Temporary relief for a few persons has seemed to count for more than some of the larger issues of statecraft, education and charity which are involved.

There should be no question about

the demoralizing effect of this pension philanthropy in view of the manifestations, especially on the part of some denominational colleges, induced by it. The attempt of these to maintain the tradition which has led denominations to found them and to support them directly and indirectly, and at the same time, for the sake of a few pension dollars, to pose as undenominational, the fine-spun technicalities raised, etc., have been appalling to disinterested individuals who recognize that education is for naught unless it has one solid foundation. Again, the efforts of State institutions—that is to say institutions supported directly or indirectly in whole or in part from the public treasury—to acquire an interest in individual benefactions of the kind are a blow at the fundamental theory of public education—self-support of the people in education—self-support of the people in education. It is bad enough for "Institutions of learning" with neither denominational nor State alignment to become the victims of this philanthropy, which is but one of the many influences training the people of the country to look outside themselves for help and tending to reduce them to a state of intellectual pauperism. That situation can be left, though, to the elements that naturally should be expected to save the institutions. But the people of the State or the members of the denominations should leave nothing undone to hold within the limits of self-respect the officials of State and denominational institutions attempting to deal with the philanthropy of Carnegie or of any other "educator" of his class.

Bearing directly upon this distressing situation in American education are these words from the *Times-Register* of Salem, Va.:

There are only three known ways to make a living in this world—begging, stealing and working. It is also true that five out of six of the people of all countries have to make their living by the use of their hands in labor. Higher education has in this country undertaken the task of subverting these two well-known rules of life. The task is indeed herculean one.

Led by institutions of "higher education," the educational system of the country is in a fair way to emphasize begging as a desirable means of making a living. Success as a beggar is the principal qualification of many an "educational statesman" of the day, and alignment with the educational philanthropies appealing to the pauper instinct has come to give a reputation of profound scholarship and educational ability not justified by any real scholarly, educational attainments.

The extent to which the thing may go is evidenced in resolutions solemnly adopted by a Southern State Teachers' Association, appointing a committee representing the State educational institutions to bring to the consideration of the Carnegie Foundation the name of a gentleman who has labored for many years in the cause of public education. It does not seem to have been suggested to the association that if the gentleman desires a pension it should be provided by the State which he has served, or, in the absence of such provision, by the hosts of his admirers. What claim has any State, any institution of learning or any individual upon the bounty of Andrew Carnegie? It will next be in order for Carnegie to be called on to pension advocates or employees of the so-called Ogden Movement for the Education of the South when they have become disengaged from regular occupations or plausibly invalid. That would round out the game. And it would be much more

direct than finding places for such in various colleges or in such enterprises as the co-operative demonstration farm work directed by an official of the National Government, but with salaries paid from the coffers of the General Education Board.

NEW RAILROADS IN THE SOUTH.

Since the beginning of the year many new railroad plans have been announced in the South. A few of them have advanced to the construction stage, while others—and these the greater in number—are awaiting money that they may appear in tangible form. It is only necessary to allude to such remarkable enterprises as the Virginian Railway, the main line of which is practically completed, or the Carolina, Clinchfield & Ohio, that is rapidly being finished, to remind one of some of the great opportunities for railroading which are presented in the South, hundreds of which are attracting attention looking to their development. Texas leads the rest of the Southern States in the number and size of its new railroad projects. The rapid influx of settlers upon the unoccupied lands of that State has created a vigorous demand for transportation facilities in regions where the population was hitherto satisfied if a railroad could be found within 25 or 30 miles, although not a few localities had no railways at all and still did not grumble, because, no doubt, the population was not large enough to be heard. The Panhandle of Texas and various counties immediately south thereof is now a favorite field of the railroad projector, who finds clamorous demands for tracks and equipment where not so long ago the maps pictured a high tableland, desolate and arid, under the names of "Llano Estacado, or Staked Plain." It was apparently a forbidding country, yet now we hear of it as a land of much availability, attractive to settlers from our own and foreign lands.

While Oklahoma is not, strictly speaking, part of the South, reference to railroad building in Texas would hardly be sufficiently complete unless some mention were made of the erstwhile Indian Territory. In many parts of Oklahoma the call for railroads is being heard for the first time, although ever since the western part of the State was opened to settlers railroad companies have been building there and also in the eastern half, which was reserved until recently for the Indian tribes. Much new construction is now hindered there because of a local law requiring that every new railroad enterprise must be locally incorporated and must maintain offices and officers in Oklahoma. This bears hard upon trunk-line systems designed to build extensions, and considerable construction has been checked. There appears to be some hope, however, that this statute will be either repealed or at least modified so that it may not be almost a prohibition of further building in Oklahoma by trunk lines having headquarters elsewhere.

Louisiana and Arkansas are close behind Texas and Oklahoma in activity for new railroads. Each has several proposed lines of importance and some will doubtless be put under construction by summer. There are large sections in each of these States where the means of transportation by rail are pressingly required, and as soon as financiers can be interested in new railroad enterprises there, tracks will speedily go down.

East of the Mississippi each State

has one or more railroad plans of importance awaiting fulfillment, and there are others under construction, among the latter being the Atlanta, Birmingham & Atlantic Railway in Georgia and Alabama, the Florida East Coast extension in Florida, the Georgia & Florida in the two States named in its title, the Knoxville, Sevierville & Eastern in Tennessee, the Norfolk & Southern in Virginia and North Carolina, and the Asheville & East Tennessee, which thus far proposes to confine its operations to North Carolina, although it may extend to Tennessee later on. There are several more new roads here and there, on some of which construction has begun, but has been suspended for some time on account of pecuniary difficulties resulting from the panic. Upon some of these it is hoped that work will soon be resumed, while none of them fail to anticipate carrying out their plans in good season.

A glance over the construction columns of the MANUFACTURERS' RECORD since the first of the year shows that actually new enterprises for railroad construction have been either organized or incorporated since January 1 as follows: Texas, 10; North Carolina, 4; Missouri, 4; Arkansas, 3; Tennessee, 3; Oklahoma, 2; Louisiana, 2; Alabama, Georgia, Kentucky, Maryland, Virginia and West Virginia, 1 each; total, 34.

The prospect is for many more new incorporations this year and considerable construction.

MISTAKEN PLANS FOR SOUTHERN ADVANCEMENT.

President W. W. Finley of the Southern Railway will shortly discover, we are sure, that his hope that the "Southern Commercial Congress" may work most efficiently in "forming public opinion as to those economic policies which are essential to the degree of prosperity," and that it "can properly aid in the development of a sound and constructive public opinion on purely economic problems," is as a reed shaken by the wind. His hope that it can be of service in disseminating information of value to the South is blasted by the fact that the propaganda calling itself the "Southern Commercial Congress" has not been able to maintain for three short months consistency in information about itself. We believe that upon mature consideration President Finley will recognize the mistake even of suggesting the possibility that any organization at Washington or at any other place may be confirmed in its assumption of speaking authoritatively for the South and of developing authoritatively advocacy of any economic policies for the South or for any other section of the country.

President Finley believes that the most important economic problem concerning the South at this time is that of the adequacy of transportation facilities. His belief is shared by many, many other progressive and sound-minded men of affairs in the South and elsewhere in the country. But we believe that such men, while recognizing the propriety of voluntary organized or individual effort to cultivate through legitimate channels sound economic opinion as to transportation or any other interest, will perceive the danger in any organization being encouraged to think that it can "voice the call of the South" on any question.

If President Finley will turn over in his mind the history of most organizations, and especially of the organizations which during the past 10 years or

more have attempted to become interpreters or representatives of the South, he will note that most of the organizations, after one or two conventions, congresses or parliaments, have become the mere skeletons of names under which have operated a small committee, which itself leaves "executive" work to a single individual. What has been can be.

Granted the impossibility that the vast body of Southern men who are practically interested in all that concerns the real vital interests of the South could gather in convention once, appoint a permanent working committee composed of actual representatives of Southern material progress, and select for that committee as its executive officer some man thoroughly identified with the South, who has actually had opportunity to become acquainted at first hand with the resources and opportunities of the South, with its needs and aims, a man whose antecedents are known and convincing of his capability of making others believe in the South, the work of the convention would be for naught. The man having the qualifications for the executive office would be too valuable to be held by any salary that the aggregate business body of the South could offer him.

Granted the possibility—and the thing has happened—that with the best intentions and most disinterested motives there could be established at Washington or elsewhere a body with a semblance of authority to voice the call of the South, what might not happen? In literature circulated in advance of the latest Washington banquet—the third, we believe, of a series of banquets promotional of the "Southern Commercial Congress"—there was uttered in advocacy of the establishment of a Southern bureau at Washington the argument that "Washington is the great center for European influence," and that "foreign Governments which now advise their citizens against moving to the Southern States will learn through their agents at Washington what the real conditions are and what the scope of Southern opportunities really is." It would be interesting for the public to be accurately informed about the foreign Governments which now advise unreservedly their citizens against moving to the Southern States. Our impression is that the agents of foreign Governments who would seek to use the voicing of the call of the South through the bureau would be the agents of foreign Governments that have during the past few years, in more or less conjunction with steamship companies, sought to dump their citizens upon the South. Men of any country whose Government aids them to get away are not the kind of men that the South wants.

Again, suppose the voicing of the call of the South should take the form of expressing a desire on the part of the South to fall in with the scheme of shunting the refuse of large cities of the East upon the South in the guise of immigrants, what redress would the South have if it had countenanced such an undertaking at Washington? Only the other day an agent of the National Government was quoted to the effect that "what promised to be a movement to divert [to the South] the alien tide from the congested centers about New York has been ruined." Maybe it has and maybe it has not.

Or, again, suppose the voicing of the call of the South should fall in with the scheme, which some Southern men, indeed, are supporting, of preventing the proper solution of the negro problem by

keeping the negroes massed in the South, what could the South do if it had permitted the country to believe that the bureau at Washington had any authority to speak for the South?

Other possibilities might be suggested, but we hope that enough has been said to show the danger in the idea which President Finley has advanced, we are sure, without viewing it from all sides. Giving every credit in the world for enthusiastic singleness of purpose to him and other Southern gentlemen who have thought to see in the overworked and discredited Southern convention scheme, with or without its "bureau" appendix, a practical device for the advancement of the South, the MANUFACTURERS' RECORD is convinced that they are grievously mistaken and hopes that they will quickly know the facts.

SOUTHERN CONGRESSMEN AND THE TARIFF.

The tariff message is in. It is brief and businesslike. It suggests a revision, and a revision having in view the fact that the present tariff law, with the other sources of Government revenue, does not furnish enough to pay the authorized expenses of the Government.

What will Southern Congressmen do in the premises? Without regard to party names, which are really meaningless in the light of history, they have opportunity to render their country signal service. In dealing with the question of internal revenue they must see to it that the burdens shall be equitably distributed over the whole country. In revising the tariff they should insist that the interests of no section shall be sacrificed for the benefit of other sections, and that the South especially, which has only in recent years come to a position where it could share the benefits of a protective tariff, shall not be made the victim of a purpose elsewhere to make as a thing of naught the policy of protection under the cry for "free raw material," regardless of what may happen to the parts of the country abounding in such material.

Southern Congressmen should insist that what is raw material for one industry is the finished product of another, and that the full development of the South, and consequently of the country, cannot be had if the industries of the South are to be paralyzed by legislation making it possible to bring from other countries material for manufacturing which the South or other parts of the country possess in abundance. They should keep to the front the certainty that such admission cannot reduce the price of finished products in view of the fact of ownership by United States interests of timber and mineral properties in other nearby lands, and the consequent fact that the immediate effect will be merely enhanced value of such property. Their position will be maintained if they unite with Congressmen of other parts of the country in demanding that wherever the duty is taken from such raw material as iron, coal, hides, sugar, etc., the duty shall be removed from the finished products. They should beware especially of reciprocity, a beautiful theory, but in practice usually a case of the hot end of the poker for the mass of American interests.

THE COTTON MOVEMENT.

In his report for March 12 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 193 days of the present season was 11,487,658

bales, an increase of 1,970,893 bales over the same period last season. The exports were 6,747,235 bales, an increase of 703,187 bales. The takings were, by Northern spinners, 2,069,984 bales, an increase of 826,885 bales; by Southern spinners, 1,565,214 bales, an increase of 71,193 bales.

SOUTHERN ARCHITECTURAL MONUMENT.

That with their mouths open they went to the banquet in promotion of the building fund of the Southern Architectural Monument at Washington is not the fault of the MANUFACTURERS' RECORD. Nor are we to blame for the startling revelation made to them that "the South is in the Union, and it is there to stay." At last! Benignant Heaven be praised! And we wash our hands in innocence of the deduction from a study of the expert diners among the 250-odd Southern Commercial Congressmen, notable for the large number of men actually and actively engaged in Southern development who were NOT among them, that for the success of the enterprise a change must be made in the site of the proposed million-dollar hive of Southern development. The banquet linked to the enterprise the ably-conceived and eloquently-promoted plan for the building of a bridge, 5 miles or 25 miles long—it makes no difference—across the Chesapeake Bay connecting Baltimore with the Eastern Shore of Maryland. Therefore, the proper site for the million-dollar, 18 stories high Southern Architectural Monument is in the middle of that bridge, with the eighteenth story devoted exclusively to the free transmutation of base metals into gold by means of unlimited wind—"carping critics to the contrary, notwithstanding."

"EYED."

It turns out that the new and only Contributing Editor of *The Outlook* is to conduct the humorous department of that journal. His first serious editorial, headed "A Judicial Experience," is largely autobiographic. Hence the paradox and the joke. But that is a mild one compared with the satire upon esteemed contemporaries in the body of the editorial. It may be recalled that in the "foreword" to his open and confessed journalistic career beginning March 4, 1900, he poked some fun at the general conduct of fellow-editors. Now, in his "judicial experience" he takes a fall out of the editorial "We." In describing an episode in the New York Legislature into which he matriculated from Harvard, he says that "I eyed" certain individuals there and that they "eyed me." With that introduction, he proceeds to use in an article of about 1673 words the first personal pronoun singular "I" 30 times, "my" 14 times, "me" 9 times, "myself" 3 times, "our" 6 times, "us" 1 time and "we" 3 times. The esteemed contemporaries may suggest that "a judicial experience" is pretty thoroughly "eyed." The very I-dea! It is evident that the Contributing Editor of *The Outlook* intends to maintain in journalism the reputation gained as a reformer in politics. The reformer in politics is usually a man of I-deals.

TERrible, TERrible.

Burdens of President Taft are already piling up. Brother James W. Van Cleave has kindly summarized them in "advance copy," which says that "larger issues are just ahead of Mr. Taft than confronted any previous President since the Civil War and reconstruction days." In calling "the roll of a few of the great questions which will have to be grappled with in the next year or two," he mentions:

"The establishment of good feeling between the North and South."

Awful! Awful! What terrible suffer-

ings the North and the South are to undergo in 1909 and 1910 while they wait for the establishment of good feeling between themselves. In the view of Brother Van Cleave, standing on the brink of the chasm long yawning between the North and the South, such men as Grover Cleveland and William McKinley must have been "previous" Presidents. They ought not to have left to a President entering office 44 years after the close of the war the fearful, not to say herculean, task of grappling with the question of establishing good feeling between the North and the South.

FOR LYNCHBURG.

At a meeting of progressive citizens of Lynchburg, Va., presided over by Mr. Walter E. Addison, editor of the *Lynchburg News*, it was announced that more than \$50,000 had been subscribed toward a Chamber of Commerce, which will be in the nature of a joint stock organization. Of 60 individuals and firms making the first \$30,000 subscriptions, 53 had subscribed more than \$500 each and seven less than \$500 each. A committee will continue the work so auspiciously begun until the minimum amount of \$100,000 has been subscribed.

Tariff and the South.

[*Florida Times-Union.*]

Richard H. Edmonds, editor of the *MANUFACTURERS' RECORD*, now at the Windsor, in discussing the protest of the Florida lumber people against the proposed reduction in the duty on lumber, said yesterday:

"I am glad to see the lumber men of this State making a vigorous fight against the proposed tariff bill, or at least against that portion of it that deals with lumber. But in this case, as in many others, the people of the South have, I am afraid, waited too long. The fight ought to have been waged as vigorously as possible from the very beginning. For several years it has been very clearly seen by those who cared to watch the situation that the effort to bring about a reduction of tariff duties has largely been fathered, not in the interest of the public, but in the interest of those who either wanted what they called free raw materials in order to increase their own profits at the expense of others, or by those who hoped by making a great outcry for tariff reduction to befuddle the public and either secure a higher duty on their own products or at least prevent the lowering of the duty on their goods through the hue and cry raised about the need of free raw materials. The game is a very old one."

"It has been worked against the South by Republicans and Democrats alike, and with but few exceptions our Southern Congressmen have generally fallen into the trap. When the Wilson tariff bill was under discussion, although fathered by Southern Democrats, it proposed free trade, or exceeding low duties on nearly everything the South produces, such as lumber, iron ore, pig-iron, coal, etc., on the plea that these were raw materials essential to the progress of the country. But the same bill left a duty of about 40 per cent. on the products made in the North and West, and of which the South is a large buyer. In other words, it proposed free trade on everything that the South produced and left a 40 per cent. tariff tax on everything that the South bought, speaking broadly in both cases. It was simply handicapping the South by giving to other sections a bonus of 40 per cent. against us. It certainly could not be justified on the ground either of free trade or tariff for revenue only. The same game is again being worked, and the South is once more to be sacrificed for the

benefit of others. As the iron ores of the North are becoming scarcer, and as many of the largest steel corporations in the country own vast iron-ore properties in Cuba and in Canada, it is proposed to put iron ore on the free list in order to strengthen the iron and steel interests of the North and of the Lake region as against the practically undeveloped iron and steel business of the South.

"As many of the great capitalists in the North own vast tracts of timber lands in Canada, it is proposed to put lumber on the free list for their benefit, to the disadvantage of the lumber people of the vantage of the lumber people of the South. As New England produces the finer grades of cotton goods, while the South produces the lower grades, it is planned to increase the duty on finer cotton goods for the benefit of the former and to reduce the rate on the lower grades to the injury of the South. If the South is to be made to suffer by having lumber put on the free list, or the duty on it cut in two, then it ought to make a fight for an equal reduction on everything into which lumber enters. If iron ore is to be put on the free list, the South ought to fight for free trade on everything into which iron ore enters. There is no more reason why lumber or iron should be called a raw material than there is why the machinery used in cutting the one or mining the other should not be likewise classed as raw materials. Whether a man be a free-trader or a believer in a tariff for revenue only, or a protectionist, he ought to believe in equal and exact justice to all classes of industries and to all sections. But too many of our Southern people in and out of Congress are caught by the cry for tariff reduction, utterly overlooking the fact that the whole game is being played with loaded dice, and they are either blind or willfully refuse to see. The other fellow is laughing in his sleeve at their guilelessness. The fight ought to have been made by a united South at the very beginning of this campaign.

"Our people ought to have seen that a very large part of the tariff agitation of the last two or three years was being worked up for the express purpose of bringing about the very reductions which are now proposed to the benefit of other sections at the expense of the South. I am very much afraid that it is now too late for the South to accomplish much. Over and over again during the last two years it has been warned of the situation exactly as it exists today, but it refused to be disturbed by such fears. While others were working and plotting it did nothing. And most of its Congressmen either did not have the moral courage to make a fight to save their own section from being sacrificed, or else did not know enough about the game to see the influences that have been vigorously striving to create a situation which would result in just such a bill as is now to be presented to Congress.

"If the Republican party and its leaders in Congress are really in earnest in their protestations of affection for the South, and are anxious, as they claim, to see this section grow in wealth commensurate with its natural advantages, they ought to unite with Southern men in demanding that whatever tariff revision be made it shall be fair and just to all the industries of the South, and afford to this section just as much protection on the things which it produces as it affords to other sections on the things which they produce and of which the South is a large buyer. Any other policy would prove in the final analysis that the leaders in the Republican party are no more interested in the real progress and prosperity of the South than can be measured by words instead of by deeds. And yet when these

people find that Southern men in Congress and many Southern papers are not interested in seeing the South get a fair show in a tariff deal, is it to be wondered at that they say to themselves: 'The South is joined to its idols; let it have its own way,' even though that way leads to destruction," concluded Mr. Edmonds.

STAY-AT-HOME SOUTHERNERS.*

Today the South is as prosperous as any part of the Union. While you, my friends, have been making a good fight here, we at home have not been standing still. West Virginia has turned her face to the morning, and is taking her rightful place among the richest and most progressive of the States. Coming up here today, drawn by power created by West Virginian coal, on cars built of West Virginia lumber, whose wheels were lubricated with West Virginia oil, and traveling over rails fluxed with West Virginia limestone, I looked out on a harbor made safe by the skill of a West Virginia engineer, the late Gen. William P. Craighill. I remembered that its great commerce is made possible by a West Virginian discovery, for at Shepherdstown, on the Potomac, James Rumsey performed the first successful experiment in steam navigation long before Fulton, who copied and perfected Rumsey's invention, was heard of. The horse that brought me from the Ferry probably wore Charles Town-made harness. Some of the high-sounding deserts we find on the menu are most likely based on Jefferson county apples or Hampshire county peaches, served on glass made of Morgan county sand, and if some of those attending other banquets may some morning want to cool their fevered brows, they will most likely do so by turning on the tap made by one of Charles Town's most flourishing factories, after which they can read in their morning papers that Clarence Watson, a West Virginian, continues to win all the blue ribbons at the horse shows, and that "General Watts," a West Virginia horse, continues to make all other trotters look like selling platters and to hold the world's record.

So I think the Little Mountain State, as she is miscalled, is "going some," after all; but what a misnomer that is when we consider that it contains one county as large as the State of Rhode Island, and much richer in its natural resources. You will pardon me if I now refer more particularly to the progress made in the good old county so many of us are proud to call "home." For old Jefferson has always been to the front, and, please God, she will remain there. In the first days of the Revolution it was a Jefferson county company of minute men, marching 600 miles from Shepherdstown, that brought to Washington before beleaguered Boston the first help from the South, and while Jefferson was against secession, and her representatives so voted, yet the die being cast, she sent more men into the Confederate Army in proportion to her population than any county in Virginia, and how well they acquitted themselves the history of their country tells. But now close to where Braddock crossed on his ill-fated march to Fort Duquesne, and where the guns of Chew's battery awoke the echoes of the Blue Ridge, the Shenandoah has been harnessed to electricity, and today the towns of Virginia and West Virginia within a radius of 25 miles are depending on that lovely stream for their light and power.

Verily, "Peace hath her victories no less renowned than war." The development of her limestone is becoming a great industry, and as shale is abundant, Jefferson is destined to become in this age of

*From a response made by former State Senator William Campbell of Jefferson at the dinner of the West Virginia Society at New York to the toast "The Stay-at-Home."

concrete one of the great manufacturing centers of the East.

To those present who have been as yet denied the great privilege of knowing it, I would say that in that garden spot of the Valley of Virginia we have the best climate, the finest roads and most productive soil in West Virginia.

I could go on for hours recounting your achievements; we take off our hats to you and wish you God speed, for we feel that we at home have a sort of silent partnership in your success. But do not become so engrossed in the game of life as played up here as not to get new inspiration by coming back to us, for, Antalus-like, a touch of the old soil will impart fresh strength and courage for the struggle you have to face in this great metropolis.

Florida Land Sales.

Mr. George W. Deen of Waycross, Ga., secretary of the St. Johns Development Co., writes to the *MANUFACTURERS' RECORD* that his company had phenomenal success in the sale of its farm tracts, covering about 30,000 acres in St. Johns and Volusia counties, Florida. He adds:

"This tract, or all that we wished to dispose of, and even more than we intended to dispose of, has been disposed of, and to supply the demand and fill excess orders that we already have for farm tracts a new company was temporarily organized and charter applied for on March 3 at Jacksonville, Fla., composed of the following-named gentlemen: Geo. R. Lynn, J. H. Phillips, H. L. Stewart, Duval county, Florida; Chas. H. Sieg, Chicago, and G. W. Deen, Ware county, Georgia. The officers are as follows: G. W. Deen, president; Geo. R. Lynn, treasurer; J. H. Phillips, secretary, Charles H. Sieg and H. L. S. Stewart, vice-presidents. The capital is \$500,000. The corporation is to be known as Jacksonville Heights Improvement Co."

Southern Iron & Steel Co.

The Southern Iron & Steel Co. has been incorporated under New Jersey laws with a capital stock of \$17,000,000, of which \$10,000,000 is common and \$7,000,000 is preferred stock bearing 6 per cent. non-cumulative dividend. Its incorporators are Daniel G. Boissevain of New York, secretary of the reorganization committee of the Southern Steel Co. of Gadsden, Ala., and associates. This new corporation will be a reorganization of the Southern Steel Co., in accordance with the plan heretofore detailed by the *MANUFACTURERS' RECORD*. W. H. Hassinger of Birmingham, Ala., is chairman of the organization committee, and it has been reported he will be elected president of the new corporation.

To Develop Potts Creek Valley.

The Waiteville Land Co. of Waiteville, W. Va., has been organized with a capital stock of \$50,000 for the development of Potts Creek Valley. It will lay out and develop the new town of Waiteville and promote the development of the iron, timber and agricultural resources of the valley. John L. Vaughan, Roanoke, Va., is president; P. W. Early, Interior, Va., secretary, and A. M. Crozier, Waiteville, treasurer.

Industries Wanted at Naples, Texas.

Active efforts will be made to secure manufacturing enterprises for Naples, Texas. The Commercial Club has been organized with John Walker as secretary, and invites requests for information regarding Naples and vicinity. Furniture factories, handle factories, brick and tile plants, steam laundries, electric-light plant, water-works, ice factory and other plants are wanted.

THE PEE DEE SECTION OF SOUTH CAROLINA.

By JAMES D. EVANS.

[Written for the Manufacturers' Record.]

Not only has the government of South Carolina come to realize the paramount importance of agriculture among the industries of its people, but the farmers, merchants, bankers and manufacturers throughout the State have awakened to the immense potentialities of the farm as the very bulwark of the State's wealth and progress. South Carolina has from the earliest time been reckoned as primarily an agricultural State, and in antebellum days she ranked among the first in the country, but the ravages of war, which destroyed her wealth and devastated her fields, robbed her of that proud distinction and left her a debt-ridden and almost discouraged Commonwealth. With accustomed courage and perseverance, however, she has emerged from that dark thralldom, and the last 20 years have seen her rise to the place of the second State in the Union in the manufacture of cotton, coming next to the great manufacturing State of Massachusetts. In the production of lumber and commercial fertilizers she also stands high in the list of the great manufacturing States of the Union. So phenomenal has been the growth in the manufactures of this regenerated State that between the years of 1882 and 1905 the growth has been more than fivefold. The total investments in manufacturing have expanded from \$13,771,004 in 1882 to \$113,422,224 in 1905, while it is estimated that the total value of manufactured products for the year 1908 exceeded by a few thousands of dollars the total agricultural products, or something over \$132,000,000. During the same time, it should be noted, the increase of the total value of all farm property was from \$84,079,702 to \$170,462,102, with an estimated annual value of all farm products of \$78,412,763, the value of farm property and products being taken for the year 1906. As will be seen, however, from the figures given below, the total products of the farms of South Carolina actually amounted to something approaching \$132,000,000 for the year 1907.

This extraordinary growth in agricultural production in South Carolina really gained its principal impetus with the improvement in the price in cotton some 8 to 10 years ago. The farmers of the State up to that time had been forced to work under the grinding conditions which had been imposed by the poverty resulting from war and the destructive political policy of the reconstruction period. With faith in the possibilities of the soil and diversified farming and a knowledge of the splendid successes of the ante-bellum planters, they persevered until their wonderful staple came again to its own. With the returns derived from the sale of their cotton was inaugurated the gigantic task of improving and reclaiming the countless acres that had been exhausted and impoverished by the necessity of unscientific cultivation or neglect. The success with which this work of reclamation has been attended is best illustrated by a comparison of the figures presented by the last census and the results shown by the publication of the State Department of Agriculture.

Of the 19,308,800 acres of South Carolina, according to the census of 1900, only 5,775,741 acres were under cultivation. This was divided into 155,355 farms, containing an average of 90 acres each, with a total value of \$153,591,159. Of these farms, 85,361 were operated by negroes as owners, share croppers or tenants, representing a total acreage of 3,791,510, of which 60 per cent. was improved, having a value of \$43,902,879 and an annual production of \$26,586,962. Only 15,503

of these negro farms were operated by the owners. The vast majority contained from 10 to 50 acres each, and the production ranged on an average from \$50 to \$501 per annum. About 70,000 of these farms were confined to the production of cotton only, and the total value of all domestic animals used on these farms, including those furnished by the share croppers, amounted to only \$6,135,820. It is apparent from these figures that there remains only 1,984,231 acres under cultivation in the hands of white farmers, who, and this is a significant fact, owned domestic animals of the value of \$14,064,039. But the most significant fact is that while the product of the negro farm had an average of \$50 to \$500 for all products, the average of all farms in the State for the census year was \$439, thus proving that the production of the white farmer was the element which caused the high general average under the conditions.

It has thus been seen that the average production for all farms in the State in 1900 was \$439. The average value of all farms at the same period was \$988.77. That compendium of statistical information "Facts About the South," published in the MANUFACTURERS' RECORD in 1907, gives the gross product of all farms in South Carolina, excluding all products fed to stock, at 33.8 per cent. of the value of farms for the year 1899. Hon. E. J. Watson, Commissioner of Agriculture of South Carolina, states in his "Hand Book" of 1908 that the total value of all farms in the State in 1907 amounted to \$173,836,290, an increase of something over \$20,000,000 in seven years, while the same authority estimates the increase in farm production for the same period to have been more than doubled, bringing the grand total up to approximately \$132,000,000. A partial list of the percentages of increase explains this extraordinary increase:

Percentages of Increase Between 1900 and 1906.

	Acreage.	Production.	Value.
Cotton.	5.9	19	23
Corn.	9.3	35	88
Wheat.	83.0	191	234
Oats.	*14.0	32	64
Rye.	5.9	70	131
Potatoes	11.0	14	132
*Increase.			

The following table, compiled from actual returns given by the commissioner, shows how well based is the claim:

Acreage, Production and Value of All Crops, 1907.			
Crop.	Acres.	Production.	Value.
Cotton	2,463,000	{ 1,186,672 bales. } 593,336 tons seed.	{ \$72,657,817 } \$29 57
Corn	1,974,000	25,532,000 bush.	35,532,000 18 00
Wheat	314,347	2,669,000 bush.	3,203,000 10 18
Oats	195,000	3,900,000 bush.	2,808,000 14 40
Rye	4,226	38,000 bush.	48,000 11 35
Hay	60,682	92,000 tons.	1,518,000 25 01
Tobacco	30,000	29,085,000 lbs.	2,908,500 100 00
White potatoes	9,065	630,000 bush.	693,000 76 00
Sweet potatoes	35,000	3,500,000 bush.	1,750,000 50 00
Cowpeas	143,070	1,162,000 bush.	1,162,070 8 12
Garden truck	50,000	5,000,000	5,000,000 100 00
All other			4,719,613
Total			\$132,000,000

*This does not account for the forage or fertilizer value of the pea crop.

It thus appears that between the census year of 1900 and 1908, assuming a probable increase in the number of farms of 5 per cent., which would bring the total number up to 163,102, the average value of the farm increased from \$988.77 to \$1066.42, while the average product of the farm increased from \$439 to \$815.44, and the value of the gross product of the farm, excluding all products fed to stock, increased from 33.8 per cent. to approximately 60 per cent. of the estimated total value of the farm. It is, therefore, apparent that the estimated value of all farms in the State in 1907 is taken at entirely too low a figure. It would be much more in accordance with the facts to estimate the value of all farm property in the State

at something in the neighborhood of \$350,000,000.

Yet with this magnificent showing to her credit, the boundless resources of this great State for agricultural development have hardly more than been scratched. Only one-fifth of her surface is under cultivation. Hundreds of square miles of her lands are still covered with primeval forest, and hundreds of thousands of acres lying in the valleys of her great rivers but await the hand of the settler who will bring them under the sway of productive science. It would be impossible to exhaust the source of facts about the boundless natural wealth of the State. One has but to see the stretches of level acres, gently rolling and unbroken by mountains or barren hills, fretted by numberless streams and smiling with bountiful harvests of its beautiful "summer snow," its fruits, its broad fields of glassy tobacco and gleaming corn, to be convinced that its future is golden and that it is in very truth the farmers' paradise. South Carolina may grow to be the greatest of the manufacturing States of the South, but its people have always been and always will be an agricultural people, and agriculture will continue to be in the future, as in the past, the mainstay and bulwark of her wealth and happiness.

Indeed, it is the realization of this fact that induced the law, just four years ago, establishing the Department of Agriculture, Commerce and Immigration, and the success of that department was assured with the appointment by the Governor of E. J. Watson to be the commissioner. Mr. Watson has brought to the discharge of his duties broad and capable intelligence and high patriotism. His efforts, so indefatigable and resourceful, have been crowned by gratifying success. Not only has this department collected and published full statistics relating to the agricultural, manufacturing and mining industries of the State, but it has stimulated the farmer into a realization of the rich reward which awaits the improvement of his lands and brought hundreds of families to the State.

This article was started with the intention of telling something about the Pee Dee section of South Carolina. What has been said of the whole State is in every sense true of the Pee Dee section.

The Pee Dee section, so called, "The Country of the Old Cheraws," as it was called a hundred years ago by our great-grandfathers, lies in the valley of the great Pee Dee River, which traverses the

northeastern third of the State from north to south. It comprises within its territory 10 or 11 counties, with a total area of 8112 square miles, 27 per cent. of the area of the State, and has a population of 298,542 inhabitants, 22 per cent. of the population of the State, of which 107,150 are white and 191,292 are negroes. Comparatively little manufacturing is done here, the section being almost entirely devoted to agriculture. There are perhaps a dozen cotton mills scattered throughout the section, as at Sumter, Darlington, Marion and Dillon, and cotton-oil mills in most of the principal towns, and, scattered through the country, saw and planing mills, the aggregate capital invested in which would amount to several millions

of dollars, but the people are a farming people; the trade and thrift of the towns comes from the farm, and farming is the bedrock of the whole fabric of business. Here, in years long past, the patriarchal system of the old plantation reached its highest development. The proportion of planter class to the small farmer class among the whites was very large, and practically all of the improved lands were owned and worked by the large planters. These plantations, often of thousands of acres each in area and cultivated by hundreds of slaves, have, since the war, been divided into smaller farms, but it is still the case that the farms of this section of the State, with occasional exceptions, are much larger in area than elsewhere in the State. Instead of the average of 90 acres, the average farm in this section will run up to perhaps twice that area. The lands are owned almost entirely by the farmers themselves, and, comparatively speaking, the percentage of farms which are mortgaged is perhaps as small as in any other section of the Union. Nor is renting and share cropping engaged in to anything like the extent that it is in other section of the State.

With only 27 per cent. of the area and 22 per cent. of the population of the State, of which population some 60 per cent. is colored, this region actually produces one-third of the total agricultural production of the entire State, viz., some \$44,000,000 annually. And these figures do not comprise the value of stock, cattle, sheep, poultry and eggs, or the enormous annual output of lumber, turpentine, staves, etc. The whole of the tobacco production of the State comes from the four counties of Williamsburg, Florence, Darlington and Marion, with perhaps a little scattered through Horry, Clarendon and Sumter. The cash value of this crop was for the last year \$2,908,500. In the Pee Dee section last year were produced 274,000 bales of cotton, which, with the complement of cottonseed, had a cash value of approximately \$16,000,000. The corn from this section, taken at the very low average of the whole State of 18 bushels per acre, had a value of over \$10,500,000, while counted at the well-recognized average of production throughout this section of from 30 to 40 bushels, the value would be increased from 60 to 100 per cent. These, however, are the old staple crops. The attention of the more progressive farmers is being turned more and more to the growing of truck and berries, and no branch of agriculture has gained such impetus within the past few years as this trucking to meet the ever-increasing demand of the great Northern markets. Not only have the native farmers turned their attention to it with unusual success, but there has been a tide of experienced truck farmers from other States, who have been attracted here by the wonderful opportunities of the trucking business.

Commissioner Watson says in his "Hand Book": "The development of the trucking industry in South Carolina has been one of the most conspicuous of all the developments in the State in recent years. * * * The Charleston district acreage is estimated at 24,200 acres, and the value of the truck produced has been estimated at \$3,717,000, against \$212,700 six years ago. * * * Over in Horry county the growing of strawberries and fruits, begun a few years ago by Northwestern pioneers, has developed into a splendid industry." The Homewood colony of Horry and the adjacent colony of Chadbourn in North Carolina, just across the State line, were settled in 1898 by Michiganers, who, when they saw the farmers of Carolina working their fields in mid-February, exclaimed: "We are done shoveling snow in Michigan," and forth-

with moved down, bag and baggage, to take possession of some 12,000 acres of old, worn-out savannah lands, which they bought for a few dollars an acre. Mr. J. Lewis Lee, one of the foremost men of the colony, seems to have been the "Deacon Pym" of the colony, for he held it together through the first year of hardship, which came with the lack of money in new territory and on poor land. Within three years, however, the average gross yield from these old savannah lands was \$300 per acre. One man made \$1494.76 on three acres of strawberries. Cucumbers, radishes and beans were grown also with phenomenal success and profit. From one neighborhood at Conway, Horry county, in 1904 there were shipped 31 cars of strawberries that netted the growers \$25,000. "This," says the report of one of the colonists to the commissioners, "is not a bad showing for a few men in an off year."

Further on in the same report quoted above the leader of the colony says: "The truckers have all had exceptionally good health since their arrival in South Carolina. There has not been a single case of serious illness among them, and they are all satisfied and even enthusiastic over the advantages of their adopted home. It is but fair to say that these first colonists settled on worn-out savannahs or in the woods, as did most of their brethren in North Carolina, and that in the space of four years they were independent, and despite severe drought this year (1904) they will make money. When it is considered that four years ago there were scarcely any strawberries grown in this section, and that the present trucking crop from a territory within 40 miles of Chadbourn, N. C., along the main line, will exceed \$3,000,000, and may go to \$5,000,000, some idea can be had of the enormous strides made by scattered farmers without capital.

"All places within this zone have quick connection with New York city and other Northern points by refrigerator car. * * * The Armours ice the cars at Chadbourn, where they keep a large ice storage plant with a capacity of 12,000 tons."

Going on, the same report says: "The market here comes midway between Florida and Norfolk, thus giving a clear field for growers to get in without opposition. The climate is mild and equable, the Gulf stream being only 50 miles off shore and the entire region pierced by large rivers. Winters are noted for mildness, and summers are never excessively hot. The region has a special advantage in Irish potato culture, and very large yields are recorded. One party made on Pine Island 160 barrels to the acre. Fruits of all kinds flourish. Horry county is in a region of infinite diversity, and has hundreds of thousands of acres of land waiting to be opened."

What is said of Horry county is true of the other trucking counties of the Pee Dee section. As I drive now through the woods and fields of this charming country at the time that the inaugural of the President in Washington is being marred by the deluge of snow and ice, and the great North and Northwest is still wrapped in its mantle of white, and see and smell the fragrance of the myriads of wild flowers, and hear the song of the mocking bird and the call of the robin and thrush and the drone of the honey bees, and looking abroad over the fields see the plowboy, in his shirt sleeves, turning the rich soil to receive its seed, or the early trucker who has already turned the face of his acres to fresh carpets of green with the luscious vegetables that are destined to garnish the table of the rich in New York (but his own board here as well) at Eastertide, I cannot restrain a feeling of

wonder and commiseration for the tiller of the soil who is yet and will for a month or more to come be housebound by ice and snow. Truly this is a lovely picture, this of the South in early spring.

Some doctor in Chicago has been advertising lately that the trouble with the people of the South is not that they are lazy, but that they are sick. The story of the great strides that South Carolina has made in material wealth within the last two decades belies any belief that her people are lazy, while the briefest comparison of statistics proves that she is one of the most healthful States on the continent of North America.

There are no extremes of heat or cold in the State, no wet and dry seasons, no extreme humidity or mugginess of the atmosphere. The seasons are full and well defined, and it would be hard to find on the surface of the globe a more salubrious climate all the year round. It is said to resemble that of Southern France, than which it is no less beautiful. Here in the four corners of the State are the world-famous resorts of Aiken and North Augusta, Charleston and Summerville, Columbia and Camden, and the health-giving waters of Harris Lythia and Glenn Springs. Here it is that the millionaires of the North and West come for the out-of-door life, the shooting, the golf and tennis, that can only be found in a softer climate than their own. To these watering places crowd many thousands of the people of the South during the months of the summer. It is not a State where living is good for one or two seasons, but for every season of the year, and no part of the wonderful little State offers more to her denizens or to those wishing to become her denizens than the rich and prosperous Pee Dee section.

UNCERTAINTY AS TO PRICES.

Conditions in the Iron Market at Birmingham.

[Special Cor. Manufacturers' Record.]

Birmingham, Ala., March 15.

There has been no change in the conditions surrounding the iron market since last report. There is the same uncertainty as to prices and the same hesitation as to buying. The transactions have been confined to filling up where grades have run out or are getting low. There is no buying to indicate any intention yet of stocking up more than is absolutely necessary to tide over the scarcity that may exist. There was the usual selling of analysis iron, which showed very little fluctuation from the prices that have been current for some weeks. There have been sales above and below \$12 as the basis for No. 2 foundry, but they have not been of any magnitude. There are reports of some on the basis of \$11.25, and there is current a report that as low as \$11 has been done. This latter report should be received "cum grano salis." We know that \$12 was refused for the second half of the current year, and we know that it would be accepted for delivery the first half of the year. We know that there was one sale of 500 tons gray forge on the basis of \$11.75 for delivery in the near future. Some interests say that no price under a \$12 basis would be of any interest to them. There is one very noticeable feature of the market, and that is, that there is a very strong feeling that the market will do better. There is, therefore, an indisposition to offer for forward delivery. Spot delivery is what is popular.

The scrap-iron market continues to be very unsatisfactory. There is very little demand, and prices are very irregular. For orders in which there is business, quotations that have been current can be very materially shaded. The majority of the transactions occurring are between the

dealers, and represent a shifting of the stocks among themselves. Quotations are omitted.

In cast-iron pipe the situation is better. In the past 18 months there has been a decline from \$33 to about \$21, and there are many requirements yet to come on the market. It is current gossip that the California letting of approximately 50,000 tons was awarded to the United States Cast Iron Pipe Co., and that about one-half the order will be made at its Bessemer plant. The report is that the remainder of the order, or the greater part of it, will be filled at its Addystone plant at Cincinnati. The terms of the letting have not yet been made public. The specifications for other lettings are now being mentioned and considered. Among them are the lettings of Oak Park, Ill., to be made on the 23d, which covers 2000 tons, and that of Toledo, Ohio, which amounts to 1000 tons, principally of large pipe, to be let on April 8. Cincinnati, it is anticipated, will be in the field for a large order for large pipe, and the gas companies in various sections of the country are placing their orders for requirements, to which must be added numbers of orders from the water companies. They are individually small, but the aggregate swells the list very materially.

On account of the reduction in the steel market, efforts are frequent to bear the price, but with very little success. The pipe works are too well fortified in their position to weaken on current values. Enough orders to keep them all going during the summer is practically assured. The annual meeting of the stockholders of the Sloss-Sheffield Company was held the past week at Jersey City. The report of the president, Capt. J. C. Maben, shows that its output of iron fell off during the year only 5 per cent., as compared with a general decrease of 40 per cent. The average price at which iron was delivered, as compared with the previous year, was \$3.93 per ton. This alone caused a reduction in profits of more than \$1,250,000. The working capital has increased to more than \$2,000,000. With only 57 per cent. of the furnace capacity in blast during the year, the output of iron for the year was within 15,000 tons of the output of the preceding year. This shows that the furnaces were in good trim and ably managed. The report shows the results that can be obtained in making iron when the plant is well located and ably handled.

A five-million-dollar mortgage was recorded here last Friday by the Alabama Consolidated Coal & Iron Co. in favor of the Windsor Trust Co. of New Jersey. The mortgage is to secure bonds issued for a like amount. Vice-President Guy R. Johnson of the company, in speaking of the issue of bonds, said: "The recording of this mortgage by our company is the first step of the Baltimore syndicate of bankers, of which W. C. Seddon of Baltimore is the moving spirit, toward developing this property on a scale commensurate with its raw material resources." This very tersely and pointedly explains the object of the bonds. A portion of them bear interest at the rate of 6 per cent. and part carry 5 per cent. interest.

The Aldrich Light & Power Co. has taken the initiative in entering the field here for supplying light and power to subscribers in the city. It has commenced the erection of poles and the stringing of wires from North Birmingham, near which it will have its power-house. Until it is completed and ready for service, that of North Birmingham will be used. Mr. J. M. Bradley, who has been superintendent of the power-house here of the Birmingham Railway, Light & Power Co., is the general manager of the new company. Land has been purchased on Village Creek

on which to erect the necessary buildings, and it is gossip that \$500,000 is behind the new enterprise as a starter, with more to come out if necessary.

The Highland Bakery filed its papers this week, with a capitalization of \$100,000. The officials of the new corporation are William Fisher, president, and Henry Mulchaw, secretary and treasurer.

An enterprise is on foot for the establishment of an automobile factory in this city. In it are interested several of our capitalists of enterprise.

Within the past 10 days we have been inundated with various high officials of various systems of railroads. Every one of them protested that there was nothing significant in the visit. But there is a suspicion that they all wanted to see how the Isthmus looked from a Birmingham viewpoint. There is some agitation of the question of making Birmingham a basing point in the iron and steel trade. That question has been before the officials of the Tennessee Company for years, and has had their most earnest consideration.

In this correspondence last week the name of the American Refractories Co. was inadvertently used for that of the Harbison-Walker Refractories Co.

J. M. K.

FOR A COTTON WAREHOUSE.

Plans Developing for a \$2,500,000 Enterprise.

[Special Cor. Manufacturers' Record.]

New Orleans, La., March 13.

Developments to date in the matter of the proposed \$2,500,000 cotton warehouse for New Orleans, previously mentioned in the MANUFACTURERS' RECORD, are an option on an ample tract of land below Chalmette, something over four miles down the river from the city proper, and the efforts of the promoters, aligned with the Business Men's League of New Orleans, to perfect the plans and secure the subscriptions to the required stock. Daniel Breck of the Selden-Breck Construction Co., St. Louis, is in charge of the physical end of the enterprise, and is preparing definite plans for the warehouse, as well as statistics showing the saving which would be effected by establishing his Memphis system here, and he has also announced his willingness to subscribe one-tenth of the necessary stock, or \$250,000.

Mr. Breck has recently spent several days in New Orleans, and has returned to St. Louis to get up all the data, plans, specifications, etc., with the intention of returning to New Orleans within 10 days or two weeks, at which time he will confer with compress and warehouse men and others, with the idea of reaching a definite conclusion and formulating plans for a line of immediate and consecutive action.

The proposition of those behind the enterprise is to not only provide a mammoth modern warehouse, by which cotton can be most expeditiously stored, handled and shipped, to the end that New Orleans as a spot market may be vastly benefited and enlarged, but to institute a system of warehouse receipts so well guaranteed by bonds that any bank in the land will accept them as gilt-edged collateral for loans.

Among the features of the system proposed is the overhead single-rail gravity-handling system, so successfully in use at the Memphis warehouse, constructed by the Selden-Breck company, which makes it possible to handle all cotton by machinery at a minimum of expense. Other features are:

An automatic weighing device, which will accurately weigh every bale as it leaves the train or boat and affix a tag showing such weight to each bale.

Storage by heading up the cotton, thus eliminating the necessity for and expense

of lifting many bales to get at any one or more bales.

Delivery by machine to ship's hold.

Elimination of costly drayage.

Elimination of costly handling by hand.

Elimination of frequent marking and sampling.

It is figured that a saving of \$2 a bale per annum could be effected by the introduction of the proposed system. It is the calculation that the cotton men of this section will give the undertaking their active financial support, and the promoters feel confident the enterprise will be put on its feet within a short time, to the great advantage of the port of New Orleans as a cotton center.

ALBERT PIENIS.

ENID'S RAPID GROWTH.

The Young City Reaching Out for Industrial Capital.

[Special Cor. Manufacturers' Record.]

Enid, Okla., March 1.

It is vain to attempt a fair estimate of what this young city is going to be, except upon the basis of what she has been. Its population increased more than 200 per cent. between 1900 and 1907, and last year over 4000 were added. This is a gain of 40 per cent. for one year. If this percentage of increase is maintained Enid will have within five years a population of 30,000 to 50,000. Enid's growth has been substantial and healthy. At present there are building and just completed 176 structures. Over \$3,500,000 was expended during the past two years in improvements, and \$1,800,000 worth of improvements have been contracted for the present year. There is planned for this year a list of structures exceeding anything yet realized in the city. For instance, there is already an appropriation of \$100,000 for a new Government building; a \$150,000 six-story business structure is projected; a \$75,000 concrete stock show building has already been started; \$250,000, it is absolutely known, will be spent for work extensions. More than \$300,000 is already arranged to be spent in paving. A \$100,000 City Hall will be completed before the year is out. A Baptist church is now under construction, costing \$25,000; a Methodist church will soon be ready for construction, costing \$52,000, and school buildings costing \$25,000 and a new fire station costing \$125,000 are also planned. When it is considered how much employment all this will mean for the working-man and how much regular business they will add to the city, it can readily be seen that the progress of Enid is permanent and substantial.

Enid is the natural and strategic mart of a stretch of territory, with Wichita on the north, Oklahoma City on the south, the western bounds of Texas on the west and Arkansas on the east, of primal productiveness.

Among the elements which will help to build up Enid are three big railroad systems, well-equipped school systems, agricultural and mechanical schools, water-works, electric light and power, prospective natural gas, street railway transportation, interurban railways, broad and comprehensive church facilities, factories, banking facilities, miles of street paving and opportunities for investment. The press of the city is also a potential factor. Mr. W. S. Hollis, president of the Keystone Investment Co., said:

"Enid has grown from 9000 population a few years ago to a city of 20,000 today, and within the next few years will have a population close up to 45,000. Capital is only needed to put into operation many industries that will pay handsome profits. No place in the wide West offers greater inducements for industries, such as packing-houses, harness factories, shoe facto-

ries and wholesale houses. There are excellent openings for a wholesale office supply house and a large ice plant. One of the great needs of the present time is an interurban railway. Enid needs a new hotel, a press-brick plant, a cold-storage house, a new theater, a steel plant, an alfalfa mill, a cement factory, a paint factory, a glass factory and numerous other enterprises."

The Enid Chamber of Commerce stands ever ready to assist in any movement looking to the industrial advancement of the city, and has been a power in bringing Enid's resources and advantages before the general public. The officers of the organization are J. W. Lyons, president; J. M. Pierott, vice-president; John P. Cook, treasurer, and J. J. Cunningham, secretary. Remarked Secretary Cunningham:

"No move of a public nature is made that does not look to the Chamber of Commerce as the rallying point, and when a call is made for anything that means for the advancement of the city, it is practically assured of being carried to a successful finish. Our city is now experiencing an industrial and commercial thriftiness that is permeating every nook and corner of our little metropolis. We have laid solid and firm foundations, and have built for years to come. We only need the influx of capital and a worthy population to make us one of the leading cities in the new State of Oklahoma. We have great resources and many natural advantages, if the people with money outside would only come out, see us, and be convinced of the golden opportunities awaiting the investment of capital."

Mr. W. A. Fourness, for many years a resident of Baltimore and a man of affairs, now located in Enid, said:

"Enid is one of the best-paved cities in the State. Our appropriation of \$250,000 for sanitary sewer construction shows the public spirit of our people. We are building a modern city in every particular. The many new industries soon to begin operation indicate that shrewd moneyed men have their eyes on Enid. We need Eastern capital and more houses, both of a business and residential character. We cannot begin to house the people coming here. Increased business demands more business houses. Our growth has been phenomenal. The future is rosy with opportunities for the capitalist, investor and manufacturer, if they will only come out, see and investigate us."

ALEXANDER HELPER.

WORKING FOR STATESBORO.

Manufacturing and Agricultural Potentials to Be Developed.

[Special Cor. Manufacturers' Record.]

Statesboro, Ga., March 12.

Statesboro exemplifies the progressive-ness and energy of Southern cities in the co-operation of its citizens to build up an important manufacturing and agricultural center upon a substantial foundation. This co-operation has taken the form of an organization to exploit the advantages of this community in an endeavor to interest manufacturers in locating plants of many kinds.

Statesboro is in the eastern part of Georgia, about 54 miles northwest of Savannah, and is the western terminus of the Savannah & Statesboro Railway and the eastern terminus of the Savannah, Augusta & Northern Railway. These two lines, together with the Central of Georgia Railway, afford excellent transportation facilities. The Savannah & Statesboro Railway operates a line between Savannah and Statesboro. The Savannah, Augusta & Northern Railway runs to Garfield, a distance of 25 miles, where connection is made with the Georgia and Florida line, and the Central of Georgia extends from

Statesboro to Dublin on the west and to Dover on the east, where it connects with the line of the Central of Georgia running between Macon and Savannah.

Statesboro possesses agricultural and manufacturing potentialities which if taken advantage of will benefit and enlarge the city.

Bulloch county is widely known as an agricultural center, and its fame is well merited. Twelve thousand bales of Sea Island cotton, or one-eighth of the world's crop, is reported to have been marketed here last year, while large quantities of upland cotton are grown annually. A fertile, rich soil suitable for diversified farming has the advantage of natural drainage.

Farms in this section are almost without exception of small acreage, and are cultivated and made self-sustaining by the owners. Bulloch county was awarded at two annual State fairs the first premium for the finest agricultural display, and in 1906 the county was the recipient of a cash award amounting to \$2700.

Besides Sea Island and upland cotton, grain of all kinds, hay, melons and vegetables are some of the crops raised here. There are 40,000 acres of fertile soil available for trucking purposes in the vicinity of Statesboro. The Bulloch Land & Development Co. of Statesboro has 4000 acres of most excellent farming land, and intends to subdivide it into 5 and 10-acre tracts.

Statesboro has several large plants, including an ice factory, a cottonseed-oil mill, two machine shops, a variety woodworking plant, timber and sawmill and an extensive fertilizer plant. It is one of the largest inland distributing points for fertilizer in the State. Last year 400 cars of fertilizer were handled by the Savannah & Statesboro Railway alone.

Statesboro is a picturesque little town, combining with the many industrial features already mentioned many others of equal importance pertaining to the health, education and comforts of its residents. The climate here is warm and temperate. When it is cold and bleak in the North the weather here is usually mild and pleasant. The drainage is good. The school system is free. An agricultural school, erected at a cost of \$125,000, is near town. The curriculum includes a wide range of subjects designed to inculcate modern and enlightened ideas of farming. Ample banking facilities are afforded by a national bank and two State banks. The city and outlying county districts are linked by excellent gravel roads, which are kept in good repair by convicts.

This city has been laid out along modern lines in respect to public utilities. Water and electricity are supplied from plants built and owned by the city.

In a commercially strategic position because of an advantageous location on three railroads and near a ready supply of raw material for different manufacturing enterprises, Statesboro offers its hearty co-operation in several material ways to manufacturers desiring to locate in the city. Free sites for the erection of plants will be given, as well as exemption from taxation for five years. Electricity and water-power will be furnished at cost, and if desired, local capital will be available.

In industries already established Statesboro has a nucleus for a large number of profitable diversified manufacturing plants, especially a cotton factory, a pulp mill, a Sea Island cotton-spinning factory, furniture, creosote and wood-block factories and a syrup-making plant and refinery.

Mayor H. B. Strange will be glad to communicate with anybody interested in Statesboro.

A. WILLIAM FIELD.

Subscribe to MANUFACTURERS' RECORD, \$4 a year, or six months for \$2.

OXFORD'S ACTIVITIES EXPAND.

Materials for Manufacturing Close at Hand.

[Special Cor. Manufacturers' Record.]

Oxford, N. C., March 15.

Oxford, Granville county, is a picturesque city of 5000 inhabitants, situated in the famous Piedmont section of the State. The town was incorporated in 1816, the tract of land on which it is situated having been granted by the Earl of Granville in 1760.

Oxford is extending its activities, which have been increasing steadily from year to year. The past 10 years has seen an increased impetus given to manufacturing enterprises, and the city's growth in that line is being accelerated by advantages of location and proximity to supplies of raw material.

Oxford is reached by the Southern and Seaboard Air Line railways, and is 100 miles from Richmond, Va.; 33 miles from Durham, 47 miles from Raleigh, and 45 miles from Norfolk.

Large supplies of hard and soft timber are available for woodworking, and there are quantities of clay suitable for the manufacture of pottery, house or firebrick. Excellent opportunities are afforded for the economic establishment of plants to manufacture spokes, handles, hubs, furniture, woodenware, baskets, excelsior, paper, buttons and wood pulp. There is also a suitable combination of conditions for the development of a door, sash and blind factory, cotton-rope factories, flouring mills, a straw shop and a tannery.

Among the plans already established here, all of which are doing a successful business, are three companies manufacturing 8000 buggies per year; one cotton mill with a capital of \$175,000, a furniture factory with capital of \$60,000 and a wheel plant of the Southern Wheel Co. with a capital of \$50,000. The Taylor & Cannady Buggy Co., whose plant has a capacity of 5000 buggies annually, manufactured and sold 3500 buggies last year. Their vehicles were shipped to all parts of the South. The American Tobacco Co. and the Imperial Tobacco Co. also maintain large plants.

Three progressive banks are in Oxford, their combined resources amounting to nearly \$1,000,000. The deposits in the last five years have increased from \$100,000 to \$600,000. Every facility is offered by them to further the advancement of Oxford.

Oxford is in the Piedmont section of North Carolina. The land is rolling, well drained, and is suitable for growing a large variety of farm products. A part of the soil is a gray, sandy loam, and is of superior quality for raising cotton, tobacco, Irish potatoes and garden truck. A red loam of stiffer consistency alternates with the gray, and is more adaptable to the raising of corn, wheat and all kinds of grain. The principal crop is tobacco, large quantities of which, of a bright yellow variety, known as "golden leaf," are raised in this district. Bottom lands furnish natural grasses for stock, and the uplands form fine sheep pasture.

The climate is conducive to health. The weather is usually mild during the winter months. A breeze from the coast tempers the hot summer nights. There is no oppressive heat, no intense or long-continued cold spells. The seasons are well defined, but the changes are gradual. Fall, with its roses in bloom, survives usually until Christmas.

The Oxford Orphan Asylum, supported by the Grand Lodge of Masons and the State of North Carolina, is an interesting and worthy institution. This asylum is "for the protection, training and education of indigent orphan children," and during

the past 30 years more than 3000 boys and girls have been under its guidance and care. As an educational center Oxford has an enviable reputation. Among the noted schools are the Horner Military School for boys, founded in 1851; the Oxford Female Seminary, and the Francis Hilliard School. In addition to these institutions, the city has an efficient graded school system.

Water and electricity are supplied by modern plants, and recently a complete system of sanitary sewerage was installed. Congress has appropriated \$7500 for a Federal building site, and efforts will be made to secure another appropriation of \$60,000 to \$75,000 for the erection of a building thereon.

The Granville Real Estate & Trust Co., Mr. A. H. Powell, president, is assisting materially in the growth of Oxford. This company has endeavored to make known the city's advantages and resources, and has met with success.

A. WILLIAM FIELD.

OKLAHOMA'S CAPITAL CITY.

Industrial Development Accomplished and to Come.

[Special Cor. Manufacturers' Record.]

Guthrie, Okla., March 12.

The growth of Guthrie has been steady and substantial. Its future as a manufacturing center is assured. Within the city limits are 68 manufacturing establishments, employing several thousand people. Among the plants are three of the largest cotton-oil mills in the State, a large cotton mill, flour mills, iron works and foundry, corrugated steel culvert and sewer pipe works, brick works, canning factory, wagon works, cigar-box factory, broom factories and a large electric-light plant which lights the entire city. This plant, installed and owned by Thos. H. Smith of Denver, Col., has grown from a 240 horse-power in three years to 1800 horse-power, and has been identified with every movement to build up the city. It is furnishing power to the many manufacturing plants and the street railway system. A large creamery with an output of 500 pounds of butter per day and a \$150,000 gas plant have lately been established. An abundant supply of natural gas can be furnished to factories at the rate of 10 cents per 1000 feet.

Within 100 miles of Guthrie is an extensive coal, oil and gas-producing district. The gas field extends over a section 50x300 miles. It is now in general use in the city.

Nine lines of railroad bring Guthrie in direct touch with the entire State. Guthrie's bank clearings amount to \$2,038,278, and its bank clearings are \$750,000 a week. The city has 60 miles of brick and cement sidewalks, \$100,000 Federal building, \$40,000 library, \$35,000 City Hall, \$150,000 Masonic Temple, \$50,000 county high school, \$300,000 publishing house and \$100,000 courthouse. Mr. W. A. Royson, secretary of the Guthrie Retailers' Association, who has been largely instrumental in organizing the new Chamber of Commerce, says:

"We are endeavoring not only to become widely known as the beautiful capital city of the State of Oklahoma, but as a manufacturing city as well; consequently, we are offering liberal inducements for new factories and other forms of reputable enterprises, such as tax exemptions for five years and steady employment to hundreds of industrious laborers who may find work in and around Guthrie. We are now constructing a convention hall at a cost of \$150,000, a viaduct to cost \$55,000, \$60,000 storm sewer, \$20,000 to be used in building additions to the ward schools, and a new Methodist Church building costing \$40,000. We play politics here for a short

period, but our citizens never lose sight of the fact that our great natural resources demand work and attention every day in the year."

Guthrie is in the center of a great cotton belt, and with its cotton compresses, cotton factories, cotton-oil mills and cotton gins is fast assuming a position as a cotton market. Logan county, in which Guthrie is the center, produced 23,000 bales of cotton this year, a large portion of which found a ready and available market in this city, while the Elberta peach found a ready market in Guthrie. Mr. Charles Pond of the Guthrie Realty Co. says:

"We have here a country which is largely attracting the farmer and investor. Our lands are in reach of all who desire to make a good living, ranging from \$15 to \$50 per acre, owing to the location and quality of the land. But few sections of our country offer so many real and tangible opportunities for investment in good productive farm lands."

Few State capitals exemplify in such marked degree the combination of political, manufacturing and industrial growth as is to be found at Guthrie. There is no hitch between the man of affairs in the city of Guthrie and the politician who comes here to make laws for his State. The citizens of Guthrie do not look on their city simply as the capital alone, where for a few months the legislator is busy making laws, but as a seat of industry and commerce.

ALEXANDER HELPER.

Durham Notes.

[Special Cor. Manufacturers' Record.]

Durham, N. C., March 12.

Capt. E. J. Parrish, one of the oldest residents here, is building a small \$15,000 theater on Main street, designed to fill the immediate demands of the city for an amusement place.

The T. O. Sharp Marble & Granite Co. increased its capital stock to \$10,000 from one-fifth that amount, and is backed by a strong corporation. It has been three years in existence, and is doing a successful business.

The Durham Traction Co. has received rails to lay a track from the main line to a park which it will begin building within 30 days near East Durham. The investment will amount to \$25,000 or thereabouts. In the enclosure there is to be land enough to hold a half-mile racetrack, baseball grounds and buildings enough for the county fair, which is going to be organized this year. This will be the first fair. Col. Dick Wright is at the head of the movement.

W. T. BOST.

It is reported that James McDonald of Knoxville has been given a contract for railroad building in Hayti.

A report from San Antonio, Texas, says that 26 cars loaded with marble from Georgia passed through that city on their way to Mexico City, where the material will be used in building the National Theater.

It is reported that Mr. T. I. Hickman of Augusta, Ga., president of the Graniteville Manufacturing Co., has been in consultation with the forestry bureau of the National Government as to a plan for reforesting 2000 acres of land owned by the company near its mills.

The Address of Mr. Stephen W. White, secretary of the Northern Central Railway, made last month at Philadelphia, in which he gave interesting reminiscences of the chief executives of the Pennsylvania Railroad system, with whom he has served during the past 35 years, has been published in pamphlet form.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

NEW LINE FOR GEORGIA.

St. Marys & Kingsland to Build Extension of 120 Miles.

At a meeting of directors of the St. Marys & Kingsland Railroad Co., held at Waycross, Ga., a resolution was adopted to extend the line from Kingsland, Ga., through Camden, Charlton, Pierce and Ware counties to Waycross, about 50 miles, and from there west through Ware, Clinch and Berrien counties, about 70 miles, to connect with the Georgia Southern & Florida Railroad at or near Sparks or Adel.

The road now extends from St. Marys to Kingsland, Ga., about 10 miles, and Capt. L. Johnson of St. Marys is the president. There has been talk of some time building a railroad between Kingsland and Waycross, and also between Waycross and Sparks, but, according to this report, the various promoters seem to have gotten together to carry out their several plans with the St. Marys & Kingsland Railroad as a beginning.

Among others interested besides Captain Johnson are Leon A. Wilson, George R. Youmans, C. M. Sweat, H. Murphy, J. M. Bell, A. Sessions and George W. Deen of Waycross.

Mr. Wilson writes from Waycross to the MANUFACTURERS' RECORD with reference to the foregoing, saying that the St. Marys & Kingsland Railway Co. was chartered October 24, 1908, to build its 10-mile line from St. Marys to Kingsland, and if it is extended as proposed in the resolution adopted, it will connect with the Atlantic Coast Line at Winokur and at Waycross, also with the Atlanta, Birmingham & Atlantic Railway at Waycross, and with the Georgia Southern & Florida at or near Sparks or Adel. The president has been authorized to make a survey and file the result with the directors, who are to meet March 19 to consider financing the proposed extension. The petitioners for the incorporation of the St. Marys & Kingsland Railroad two years ago included those mentioned in this article, besides Warren Lott and W. A. Price of Waycross, F. L. Sweat of Douglas, C. W. Deen of Baxley, L. Carter of Jesup, John Bachlott and R. L. Bunkley of St. Marys. The capital is \$50,000, with shares of \$100. At present the road connects with the Seaboard Air Line at Kingsland.

A copy of the resolution adopted is to be advertised in all the counties through which the proposed extension is to run, and a copy thereof is to be filed with the Secretary of State, so that the extension can be made.

New Railroads Organized.

Among the new railroad companies recently reported are the following:

Oklahoma, Vernon & Pacific Railway Co., Vernon, Texas; capital \$125,000. To build from Vernon southwest to Estacado, Texas, 125 miles, through Wilbarger, Foard, Cottle, King, Dickens and Crosby counties. Incorporators are L. G. Hawkins, W. O. Anderson, B. J. Parker, L. J. Massey, Robert Housells, T. J. Youngblood, J. D. Hagler, T. H. Shives, J. Ray, J. E. Dodson, G. J. Gibbs, A. C. Hahn, C. P. Smith, J. F. Minarik and B. Housells, all of Vernon.

Cumberland & Northern Railway Co. of Kentucky; capital \$100,000. To build from Artesmus, Ky., through Knox, Clay, Owsley and Lee counties to Beattyville, Ky., 75 miles. The officers are: President, J. H. Graham; vice-president, S. P.

Condon; secretary and treasurer, E. L. Thomas, all of Knoxville, Tenn.

Laurinburg & Southern Railway Co.; organized at Laurinburg, N. C. To build from Laurinburg to Gibson, N. C., about 11 miles. N. G. Wade of Montbrook, Fla., is chairman of the board; John F. McNaught of Laurinburg, president; D. J. Flynn of Jacksonville, Fla., vice-president; A. A. James of Laurinburg, secretary and treasurer, the other directors being R. R. Covington, John Blue, D. K. McRae and A. L. James.

Bierne & Clear Lake Railroad Co. of Arkansas; capital \$8000. To build a line four miles long in Clark county, Arkansas. Directors are L. M. Ridelspeier, J. S. Boger, J. C. Greene, John A. Miller and J. J. Hawkins.

A Kansas City Terminal Company.

According to a report from Kansas City, Mo., the Kansas City Junction Railroad Co., which, with two other corporations, was organized about two months ago by George Townsend of Indianapolis, representing a syndicate, has prepared plans for a \$2,000,000 system of railroad terminals, including freight and passenger stations, yards, shops, roundhouses, etc., to be used by trunk lines endeavoring to enter Kansas City. The proposed terminals are to be built in the North Missouri bottoms on the Kansas side and along the Missouri River front in Kansas City, Kan. These are to connect with a railroad bridge to be erected over the Missouri river and also with the Kansas City & Cameron Railroad on the Missouri side. About 300 acres of lands in the bottoms have been purchased, and about 400 acres more will, it is said, be bought. The names of the trunk lines which are to use the terminals have not been announced. The Jackson County Junction Railroad Co. is the name of the third corporation lately formed. About 12 miles of track are to be constructed north of Greeley avenue, and a freight depot 1600 feet long will be erected. Angevine, Cubbison and Holt of Kansas City, Kan., are attorneys for the syndicate.

New Orleans to Grand Isle.

The New Orleans & Seashore Railway Co. has been organized and incorporated at New Orleans with \$2,000,000 capital to carry out the plans of the New Orleans & Seashore Air Line Railway Co. announced several months ago. The incorporators are reported as saying that they will immediately undertake the building of an electric railway from Amesville, in Jefferson parish, opposite New Orleans, to Grand Isle, La., 55 miles. Survey has been made, and they will soon be ready for construction.

It is said that practically the same interests which backed the New Orleans & Seashore Air Line several months ago are also behind the new concern, but on account of necessary changes a new charter was filed. This document also gives authority to extend the railway the full length of Grand Isle, and it may build a branch to Bayou Lafourche and along that bayou from Rockport to the Gulf of Mexico. It is provided that ferries may be established to transport trains across the river, and that depots and other terminal facilities can be erected.

The incorporators are James W. Porch, J. H. Menge, Jr., D. W. Benson, Leo A. Marrero and Lamar C. Quintero, all of New Orleans.

Morgantown & Dunkard Valley.

Mr. J. Ami Martin, general manager of the Morgantown & Dunkard Valley Railroad Co., writes the MANUFACTURERS' RECORD that the bond issue is \$400,000, instead of \$300,000, and the securities

will be ready for disposal about April 15. Continuing, he writes:

"We now have five miles graded, and expect to begin laying track about April 1. This road is proposed from Morgantown, W. Va., via Granville, Randall, Barker, Cassville, Core, Pentress, Blacksville and Wadestown, W. Va., which is 30 miles, with a branch of about five miles to Mt. Morris, Pa. We have a franchise from our County Court granting right to us along the county road; also rights of way from most of the land owners along the proposed line. We have 10,000 ties on the grade.

"This road passes through a thickly settled community of well-to-do and wealthy farmers, following the valley of Dunkard Creek, which is a great oil and gas-producing territory, as well as five workable veins of coal that will soon be developed. The writer is the engineer in charge. We will not build by contract."

Western of Georgia.

The Western of Georgia Railway Co. has given notice that it will apply for a charter to build a line about 60 miles long from a point on the Atlanta, Birmingham & Atlantic Railway at or near Aberdeen, in Fayette county, Georgia, westward to Newnan, in Coweta county, continuing west to Franklin, in Heard county, and from there west or northwest to the Alabama boundary; capital \$500,000. The incorporators are John W. Daniel, Hope H. Lane, Ben H. Tompkins, R. B. Mooy, R. M. Lipford, J. W. Ray, Robert G. Crain, James R. Daniel, W. D. Taylor, W. T. Goodson, A. W. Powers, Frank S. Loftin, P. T. McCutchen, Roe Hearn, G. A. Adams, D. B. Whitaker, W. D. Ridley and L. F. Davis, all of Heard county; W. A. Brannon, B. T. Thompson, L. N. Orr, Sr., Charles C. Parrott, H. C. Arnall, Sr., I. P. Bradley, J. J. Keith and W. C. Wright, all of Coweta county.

Santee River Lumber Road.

The Santee River Cypress Lumber Co., Ferguson, S. C., informs the MANUFACTURERS' RECORD that its railroad is for use in the lumber business, and not for the purposes of a common carrier. The bridge to be built across the river will be of the heavy E-45 type, which is a much heavier bridge, the letter says, than any used throughout that district. The reason of this heavy installation is that the machinery used in the logging work weighs much more than ordinary machinery, and, furthermore, if in the future the company desires to utilize the bridge for a main line road it would require no changes. At present, however, the company is not contemplating going into the railroad business, "but its enormously large timber holdings along the river and in the country warrants the investment in the best equipment for carrying on its business."

Across the Rio Grande.

The St. Louis, Brownsville & Mexico Railway and the National Railways of Mexico have, it is reported, awarded the contract for the substructure of the bridge across the Rio Grande between Brownsville, Texas, and Matamoras, Mexico, to the Foundation Company of New York, while the contract for the superstructure was let to the Wisconsin Bridge & Iron Co. of North Milwaukee, Wis. The bridge, which is to be about 500 feet long, will be finished in six months.

Contract for a Texas Road.

Contract is reported let to build the Quanah, Acme & Pacific Railway from Quanah, Texas, westward 60 miles via Paducah, Texas, through Hardeman and Cottle counties. The contractor is the Pacific Construction Co. of St. Louis,

which, it is further stated, sublet the contract for grading, bridges and fences to the Johnston Son & Allhand Construction Co. of St. Elmo, Ill.

Sam Lazarus of St. Louis, president of the railway company, it is said, let the contract, and he is quoted as saying that work will begin immediately and will be pushed to completion not later than November 1. As Cottle county is developed the line will be extended westward, but at present it will not go farther than the western boundary of the county.

New Equipment, Rails, Etc.

Reported that the St. Louis, Brownsville & Mexico Railway will purchase five passenger coaches.

The Cape Girardeau & Jackson Interurban Railway, Cape Girardeau, Mo., will, it is reported, purchase considerable material for track construction.

The Tampa & Sulphur Springs Traction Co. of Tampa, Fla., is reported to have purchased four cars, each with 12 benches.

The Sapulpa & Interurban Electric Railway, Sapulpa, Okla., is reported to be contemplating the purchase of cars.

The Chicago & Alton Railroad will, it is reported, purchase about 9000 tons of rails.

The Louisville & Nashville Railroad is reported in the market for 7000 tons of bridge material.

The Missouri Pacific is reported to be receiving bids on 2500 tons of bridge steel.

Clinton & Oklahoma Western.

Mr. T. J. Nance, vice-president of the Clinton & Oklahoma Western Railway Co., Clinton, Okla., writes the MANUFACTURERS' RECORD that contract for grading the line 20 miles between Clinton and Butler, Okla., has been let to Frank L. Adams & Co. of Oklahoma City, work to begin March 15, but the date for receiving equipment bids is not yet set. The directors are C. C. Godman, president; T. J. Nance, vice-president; C. H. Lamb, secretary, and C. R. Strong, general manager, all of Clinton, Okla., and Grant Stafford of Winfield, Kan. The line is chartered to build from a point at or near Lehigh, Okla., to Trinidad, Col. The chief engineer in charge of the work is Guy V. McClure of Oklahoma City.

Rockport to Aransas Pass.

President Charles G. Johnson of the Rockport & Port Aransas Railroad Co., recently chartered in Texas, writes from Rockport to the MANUFACTURERS' RECORD that the line will be built from that place to the jetties at Aransas Pass, 11 1/4 miles. Besides Mr. Johnson, the directors are D. R. Scrivner, treasurer; Harry Traylor, secretary; John H. Traylor, vice-president and general manager; Fred Stevens, W. H. Baldwin and Thomas H. Mathis, all of Rockport, Texas. The stockholders include the foregoing and A. L. Brühl and Ed. Peets, Jr., of Rockport, Texas; James H. Allen of St. Louis, Mo., and J. Quinn of San Antonio, Texas. Fred Percival is engineer in charge.

Frisco Reported Buying Kirby Roads

A press report from Austin, Texas, says that the Frisco interests have purchased the railway terminals of the Kirby Lumber Co. at Beaumont, Texns; also that about 150 miles of lumber railroads owned by the Kirby Company in the eastern part of Texas have likewise passed into the hands of the Frisco, which will use them as common carriers.

Texas State Road Extension.

A dispatch from Austin, Texas, says that a bill has been introduced in the

legislature to appropriate \$150,000 from the State treasury to extend the Texas State Railroad from Rusk, Texas, southward toward Houston, 100 miles, and that Houston will eventually be made a terminal of the line. It is proposed to use convict labor for construction and to provide much material through the industries of the State penitentiary system. The line is now being built between Rusk and Palestine, Texas, 30 miles.

An Eastern Shore Trolley Line.

The MANUFACTURERS' RECORD is informed that New York capital will finance a new trolley road on the Eastern Shore of Maryland, and the preliminary survey is almost completed.

A press report says that the McCay Engineering Co. of Baltimore is surveying for the line, which will run from Cambridge, Md., to Seaford, Del., and from Salisbury to Claiborne, Md. John H. Burgess, Jr., of Cambridge, Md., and T. Hughlett Henry of Easton, Md., are reported interested.

Yadkin River Railway.

A letter from Raleigh, N. C., to the MANUFACTURERS' RECORD says that a charter has been granted to the Yadkin River Railway Co. to build and operate, by either steam or electricity, a line from East Bend, in Yadkin county, to Donora, in Forsyth county, North Carolina. W. A. Martin and others are the stockholders.

First Coal Over the Virginian.

The first carload of coal shipped over the entire length of the Virginian Railway, which was recently completed between Deepwater, W. Va., on the Kanawha River, and Norfolk, Va., has just been received at Norfolk. This marks the beginning of through coal shipments over the road.

Contract for Cut-Off.

An official letter to the MANUFACTURERS' RECORD says that the contract for the Louisville & Nashville Railroad cut-off between Madison and Goodlett's, Tenn., has been let to the Kreis & French Construction Co., Vanderventer Building, Knoxville, Tenn.

Railroad Notes.

Mr. W. H. Wells has been appointed chief engineer of construction of the Southern Railway, with headquarters at Washington, D. C. The office of engineer of construction is abolished.

A dispatch from Louisville, Ky., says that the Louisville Railway Co. has sold \$1,000,000 of 40-year 4 1/2 per cent. second mortgage bonds to the Fidelity Trust Co. These bonds are part of a \$2,000,000 issue, the rest of which was previously sold.

Mr. George A. Keyes, general manager of the Kentwood & Eastern Railway Co., Kentwood, La., writes the MANUFACTURERS' RECORD that there is no truth whatever in a press report about the company contemplating an extension to Folsom, La.

D. Nichols & Sons, railroad contractors, Atlanta, Ga., have a contract for three miles of heavy work on the Carolina, Clinchfield & Ohio Railway, under the McArthur Bros. Company between Bostic, N. C., and Spartanburg, S. C. The work is progressing nicely with a 60-mule scraper outfit and one Model 60 shovel outfit, besides a concrete outfit to do the concrete work.

The annual meeting of the Mississippi Pine Association will be held at Hattiesburg on March 25.

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LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

Alabama-West Florida Lumbermen.

To the Alabama-West Florida Lumber Manufacturers' Association at its annual convention at Montgomery last week President F. J. Hughes presented a summary of the work accomplished by the association during the past year, while the report of Secretary and Treasurer J. H. Eddy showed the association to be in good financial condition. Reports were also presented by the committees on transportation and legislation, and papers were read by John L. Kaul, Richard Randolph, Fred Larkins and others. The following officers were elected for the ensuing year: J. T. Burlingame, Yellow Pine, president; J. H. Eddy, Birmingham, secretary and treasurer; J. G. Leavitt, Maplesville; J. G. McDowell, Dunham; J. W. Stevens, Bay Minette; P. Vrendenburg, Pine Hill; A. N. Breakey, Bagdad, Fla., and Mr. Stevenson, vice-presidents.

Will Develop 17,248 Acres.

Relative to the purchase of 17,248 acres of timber lands in Pocahontas county, West Virginia, by the Wilson Lumber Co. of Garrett county, Maryland, and Gross & Chaffey of Elkins, W. Va., reference to which was made in this column last week, it is announced that the Wilson-Chaffey Lumber Co. has been incorporated at Elkins for the purpose of developing the property. The company, it is stated, will construct a railway, erect a sawmill of 100,000 feet daily capacity and provide other facilities for its purposes. Its officers are Richard Chaffey, president; Merritt Wilson, vice-president and manager, and George W. Wilson, secretary and treasurer, all of Elkins.

Extensive Timber Development.

Relative to current reports announcing the purchase of 20,000 acres of timber land in West Virginia by the Croft Lumber Co., House Building, Pittsburg, Pa., and the intention of the company to establish a large sawmill for its development, the MANUFACTURERS' RECORD is advised that the company will erect a single-band sawmill of 75,000 feet daily capacity at Alexander, W. Va., and is purchasing machinery for its equipment. The timber is estimated to cut 175,000,000 feet. Officers of the company include J. H. Henderson, president; G. D. Browning, vice-president; P. C. Barnes, secretary, and N. U. Bond, treasurer.

Hardwood Lumbermen Meet.

At a meeting last week at Norfolk of members of the National Hardwood Exporters' Association, over which President Harvey M. Dickson presided, a committee was appointed to draft a constitution and by-laws for a subsidiary organization to be composed especially of shippers of white oak wagon planks. The organization of the association was not consummated, but the subject will be further considered at another meeting to be held at Roanoke on March 30.

Lumber Notes.

W. B. Ryals has completed the Fort McCoy (Fla.) plant of the E. P. Rentz Lumber Co., and has accepted the superintendence of the Hilton & Dodge Lumber Co. at Darien, Ga.

The Oconee Timber Co. of Charleston, S. C., has incorporated with a capital stock of \$250,000 to establish sawmills, tramroads and develop timber properties, etc. Its incorporators are H. W. White and V. P. Scarpa.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

The Huss Manufacturing Co.

The Huss Manufacturing Co. of Bessemer City, N. C., has been incorporated with a capital stock of \$100,000 by C. J. Huss, John J. Ormand, R. F. Cable and others.

This company succeeds C. J. Huss & Co., operating 48 broad looms on damask production. It will build a 50x130-foot addition and install spindles for yarn production. Mr. Huss will probably be elected secretary-treasurer and general manager.

The Ball Ground Cotton Mills.

The Ball Ground (Ga.) Cotton Mills has reorganized, as stated last week, and plans to build a modern plant for the manufacture of indigo denims, tickings, plaids and similar fabrics. This company's plan is to erect a two-story 75x250-foot building, with dormer roof, power plant, cotton warehouses, commissary, 60 operatives' cottages, etc., and install 10,300 spindles, 350 looms and accompanying machinery. Frederick A. Abbott is the company's president.

The Manchester Cotton Mills.

The Manchester (Ga.) Cotton Mills, Fuller E. Callaway of Lagrange, Ga., president, has awarded contract to Pike Bros. of Lagrange for erecting the buildings for the plant heretofore detailed. The main building will be three stories high, 100x450 feet, and will be equipped with 20,000 spindles and 500 looms, for manufacturing cotton cloth. About 750 horse-power will operate the plant. The company is capitalized at \$500,000.

The Ivanhoe Manufacturing Co.

The Ivanhoe Manufacturing Co., Smithfield, N. C., mentioned last week, plans to begin the construction of buildings by April 15, and will provide for a 5000-spindle mill to manufacture warps and hosiery yarns—18s to 30s. F. K. Broadhurst, secretary-treasurer and general manager, is in charge. W. N. Sanders is president, and J. H. B. Tomlinson is vice-president. The company is in the market for the entire mill equipment.

Unity Mill No. 2.

The Unity Cotton Mills, Fuller E. Callaway, treasurer, Lagrange, Ga., has awarded contract to John F. Grandy & Son, Greenville, S. C., for the erection of the buildings for Unity mill No. 2, heretofore detailed. This company's main addition will be two stories high, 132x290 feet, and will be equipped with 10,000 spindles and accompanying machinery. About 500 electric horse-power will drive the plant.

The Elmore Manufacturing Co.

The Elmore Manufacturing Co. of Demopolis, Ala., has been organized with a capital stock of \$50,000 by B. F. Elmore, J. W. Sanders, W. C. Harrison, Jr., and Bessie C. Minge. This is a reorganization of the Bessie Minge Manufacturing Co., operating a mill of 4000 spindles on the production of waste yarns.

To Rebuild Odell No. 4.

The Locke Cotton Mills Co., Concord, N. C., is reported to have awarded con-

tract to R. L. McAllister, Mt. Pleasant, N. C., and Ed. M. Misenheimer, Concord, for the construction of building 100x400 feet to replace Odell mill No. 4. It is understood this mill will be equipped with 50,000 spindles and accompanying machinery, which would necessitate the investment of from \$900,000 to \$1,000,000.

The Gluck Mills.

The Gluck Mills of Anderson, S. C., will install 2000 spindles additional and a steam turbine for operating the clothroom and lighting the mill village. The company has contracted for the machinery. The new spinning machinery was purchased from the Howard & Bullough American Machine Co. of Pawtucket, R. I., and the electrical apparatus from the General Electric Co. of Schenectady, N. Y.

Silk Industry in Florida.

The Florida-American Silk Farm of Macclenny, Fla., has been incorporated with a capital stock of \$50,000 by Dr. V. G. Osigian, C. M. Griffing, Tate Powell and others. This company plans to plant mulberry trees on 40 acres of land, cultivate silkworms, spin silk and otherwise promote a silk industry.

The Lynchburg Hosiery Mill.

The Lynchburg (Va.) Hosiery Mill has been incorporated with a capital stock of \$50,000 to continue an established plant. It is now operating 105 knitting machines, with accompanying equipment, and will add 50 machines. J. G. Burton is president and manager, and C. G. Burton is secretary-treasurer.

For an Underwear Mill.

W. L. Cantwell of Wilson, N. C., proposes organizing a \$30,000 company to build the knitting mill mentioned last week. He contemplates manufacturing cotton underwear, and is prepared to consider data and prices on machinery necessary.

Textile Notes.

W. F. Freeman of Claxton, Ga., is interested in a plan to build a cotton mill.

The Abilene 25,000 Club of Abilene, Texas, is corresponding with Massachusetts manufacturers relative to the construction of a cotton mill.

Z. T. Fulmore of Austin, Texas, has an equipment of machinery for knitting hosiery, and suggests the organization of a company to establish the mill mentioned last week.

The Globe Manufacturing Co. of Gaffney, S. C., will hold a meeting of stockholders on April 5 to vote on increasing capital stock from \$50,000 to \$200,000. It now operates 4000 spindles.

Houston.

In a review of the municipal history of Houston since the inauguration of the commission government four years ago, Frank Putnam says in the *Chronicle* of that city that the commission has paid off \$400,000 of floating debt, has invested nearly \$700,000 in permanent public service improvements out of current revenue, and has acquired by gift or purchase new public service property to the value of nearly \$1,000,000; has created a sinking fund for the bonded debt and has placed \$100,000 in that fund; has bought the private water-works system for \$944,000 and has organized the plant so that it not only pays for its own maintenance and pays interest and sinking fund charges on its own bonds, but turns a net profit into the general fund of the city, and has redeemed

\$150,000 of paving certificates through accepting them in lieu of taxes.

MINING

Big Dividend.

As embodied in a resolution adopted by the board of directors of the Consolidation Coal Co. and presented to the stockholders at their annual meeting yesterday for ratification, the company purposes to increase its capital stock from \$10,250,000 to \$20,000,000 and declare a stock dividend of 60 per cent, payable to stockholders of record of April 24. It is intended to distribute \$6,150,000 worth of stock to the stockholders and hold the remainder of the authorized increase in the company's treasury for use in extending its holdings in coal lands and for terminal and transportation facilities. The resolution provides that no certificate shall be issued for fractional shares, but scrip shall be issued for such fractional shares to be exchanged for certificates of stock in amounts representing one or more shares, such scrip not to participate in dividends until exchanged for stock. The principal offices of the Consolidation Coal Co. are in the Continental Trust Building, Baltimore, and its officers are Clarence W. Watson, president; Jere H. Wheelwright, vice-president; T. K. Stuart, secretary and treasurer; A. T. Watson, purchasing agent, and L. L. Malone, general manager.

Western Kentucky Coal.

Harvey Yeaman, secretary the Henderson Commercial Club, Henderson, Ky., writes to the MANUFACTURERS' RECORD:

"For some time I have read with interest your articles on the growth of the South and the development of our natural resources. Western Kentucky, and particularly Henderson county and the city of Henderson, are awake to this new growth and prosperity. The city of Henderson now has a population of 18,500, and is improving and growing rapidly.

"The chief natural resource of Henderson county is coal. We are surrounded by inexhaustible coal fields, with four mines within wagon haul of the city, and many others within convenient distance on railroads leading into the city, furnishing good and cheap fuel for domestic and manufacturing purposes. Preparations are now being made for more extensive mining in this coal belt. Eastern capitalists have recently been quietly coming in and buying up coal rights. There is every evidence of greater activity in the near future."

Alabama's Coal Production.

Figures prepared in the office of Chief Mine Inspector Ed. Flynn of Birmingham indicate that the total coal production in Alabama during 1908 amounted to about 11,000,000 tons. The statistics at present available give an aggregate of 10,474,591 tons, with several mines yet to report, which will increase the total by about 500,000 tons. Jefferson and Walker counties lead, with 5,254,817 and 2,522,862 tons, respectively, with the following production for the other counties: Bibb, 1,180,228 tons; Blount, 80,396 tons; Cullman, 95,000 tons; DeKalb, 10,844 tons; Etowah, 10,000 tons; Marion, 38,570 tons; Shelby, 369,344 tons; St. Clair, 181,185 tons; Tuscaloosa, 714,015 tons, and Winston, 17,380 tons.

Leases Coal Lands and Mines.

An extensive deal in coal properties has been consummated by Thomas T. Boswell, Maryland Trust Building, Baltimore, who has closed a lease for the Browning mines and coal lands in Tazewell county, Virginia. Mr. Boswell informs the MANUFACTURERS' RECORD that the lease embraces all the coal acreage, including two mines, with their equipment, operatives' dwellings and other facilities, and that he

will assume the management on April 1. He will continue operations, either in his individual capacity or promote a company for this purpose. The lease covers a period of 50 years, but carries an option of purchase which may be exercised within three years.

Capitalized at \$2,500,000.

The Crescent Coal & Timber Co. of Charleston, W. Va., has incorporated with an authorized capital stock of \$2,500,000 to develop property in Boone county. Its incorporators are H. R. Van Duesen of Scranton, Pa.; James Flynn, C. C. Stone, L. G. Summerfield and S. P. Richmond, all of Charleston.

It is reported that the Cosmopolitan Coal & Coke Co., Philip Oglevee, president, Vanderbilt, Pa., has sold to Cleveland and Chicago capitalists 11,600 acres of coal lands in Gilmer and Braxton counties, West Virginia. The consideration is stated at \$1,600,000.

Opelousas' Offerings.

Phil. L. Asher of Opelousas, La., writes to the MANUFACTURERS' RECORD:

"The Progressive League of Opelousas, La., would like to hear from parties who may be interested in the building of sugar refineries, syrup mills, canning factories, furniture factories and pork packeries, with a view to having them locate in our midst. Any parties contemplating investments of this kind will meet from our citizens a liberal response. We want people to come here willing to take about half of the stock necessary for the building and operation of any of these enterprises; our own people will gladly take the balance and extend to the companies all the cooperation within their power.

"Opelousas is the parish seat of St. Landry parish; its population is 7000; it has three railroads—the Southern Pacific, the Texas Pacific and the Colorado Southern & New Orleans Pacific (Frisco system)—good schools, good roads, paved sidewalks and everything that goes to make a pleasant and comfortable place to live in and rear a family.

"Our farmers are going extensively into the planting of cane, corn and truck and vegetables, and owing to the ravages of the boll-weevil will plant very little cotton, but will be able to furnish all varieties of vegetables for canning purposes, as well as shipment to Eastern and Western markets, and have planted already this season about 4500 to 5000 acres of cane."

Needs a Wagon Factory.

The Citizens' Loan & Trust Co. of Hawkinsville, Ga., writes to the MANUFACTURERS' RECORD:

"We would thank you to place us in touch with parties who might be interested in moving to Hawkinsville and establishing a buggy and wagon factory. This city offers attractive inducements, and we have parties here who would subscribe to \$16,000 stock in a company with a capitalization of from three to five times that amount. We are satisfied this is one of the best points in Georgia for a buggy and wagon factory. This city is located on the Ocmulgee River, which enables us to secure not only attractive freight rates from railroads entering here, but the local trade absorbs annually about 200 buggies and wagons, most of which trade could be diverted to a local plant."

Last week's report that the Gaffney (S. C.) Manufacturing Co. is installing additional spindles was not correct. The company has removed 13,000 idle spindles to another building, where they will be spinning within 60 days.

MECHANICAL

Shop Heating.

By F. R. SILL.

When it comes to laying out a heating plant, the character of the building and the purpose for which it is built must be carefully studied. What answers for one

to such an extent that they are often insufficient for the heating surface required.

Furthermore, when the space is sufficient, the banking of such great heating surfaces into a small space makes it uncomfortable for the employees who have to work near them.

These and other features have made the

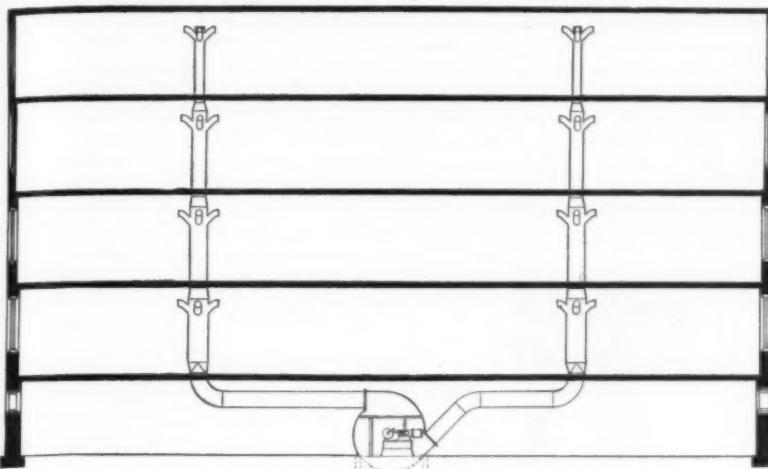
usually made of galvanized sheet iron for all types of buildings except where it is necessary to place them under ground, in which case they are built of brick, vitrified tile or reinforced concrete.

It is always advisable to run the ducts inside the building because of the heat wasted if they are run outside, be they above or below the ground. It is, furthermore, advisable to make the ducts of galvanized iron and suspend them in the open air overhead, if possible, as the loss of heat from underground ducts is enormous.

A fair idea of what this loss sometimes amounts to may be gained from mention of a case a few miles north of Grand Rap-

is needed the most in the lower strata near the floor, not up among the roof trusses; the greatest benefit is derived from the system by diffusing the warm air close to the floor, keeping the lower strata in circulation, and thereby warming it by mixing with it the warm air discharged from the ducts.

The best way to bring this about is to extend the branch ducts from the main trunk line over to the walls or to posts not more than 20 feet away from the outside walls, then down toward the floor, ending four or five feet from the floor. (See accompanying illustration, "Shop Heating by Blower System.") The air should dis-



SHOP HEATING BY BLOWER SYSTEM.

type of building is totally unsuited to another of a different type. Again, what serves very nicely in a building of a certain type, in which a particular class of work is done, proves anything but satisfactory in a building of the same type in which a different kind of work is done.

Apart from the use to which the build-

blower system popular, as it has proven efficacious in almost every building of whatever character when it has not been misapplied. Many of the designers of such heating plants seem to have a penchant for trying to make this system do all sorts of unusual and almost impossible stunts. The system is so flexible and so positive in its action that many persons seem to think it capable of defying Nature's laws. But occasionally Nature asserts her rights in a most emphatic manner, with the result that a plant fails to do what was expected of it. This, however, is no fault of the system, but rather of the man who designed the plant.

The blower system is so universally known as to need little more than the most superficial description of the apparatus,

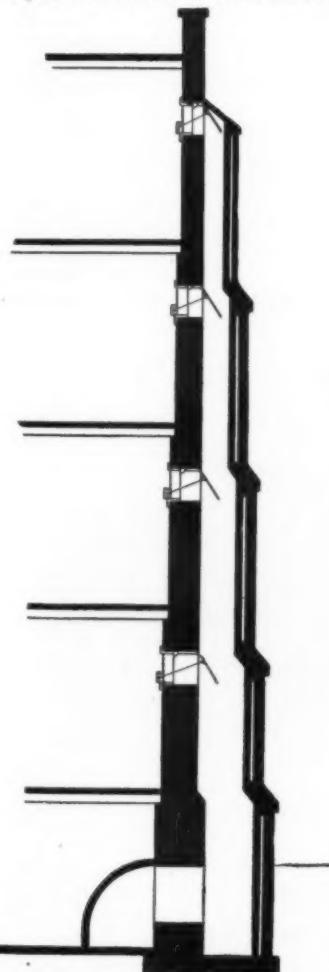
ids, at a large silk mill. The basement wall is built of stone about three feet thick. The duct is built of brick above the basement floor, along the outside wall, beneath the windows.

In the winter when the outside temperature is down near zero and there is a foot or more of snow on the ground, the grass is perfectly green for a space extending out from the building nearly 10 feet in width, and for 10 feet more there is no snow, though the grass is dead.

Had the duct been made of iron and run inside the building, all this heat would have been radiated into the surrounding atmosphere, thus helping to maintain the

charge directly toward the floor, or at only a slight angle from perpendicular. This method will be found most effective in machine shops, foundries and other lofty structures.

In paper mills, rubber works, dyehouses and other plants for which the building is of the same type as those just noted, it is necessary to blow some hot air out toward the roof as well as down toward the floor, in order to take care of the condensation which would otherwise collect on the under side of the roof. Even then, in very cold climates, it is sometimes necessary to put in a false ceiling to overcome this annoyance, particularly if the roof is built of a



VERTICAL WARM-AIR FLUE.

ing is put, consideration must be given to its character.

The tendency nowadays is to put up lofty buildings. Such structures have steel frames, walls made almost entirely of glass, with only narrow pilasters between, and shallow panels of brick or concrete above and below the openings. The exposures are relatively enormous, requiring large amounts of heating surface, yet the spaces available for steam coils are limited

though there is plenty to be learned about the best way to install it.

The apparatus consists of a large blower driven by an engine or motor, and a deep bank of steam coils enclosed in steel. (See accompanying illustration.) The blower causes the cold air to circulate rapidly in contact with the outer surfaces of the steam pipes, thus becoming heated to a temperature ranging from 120 to 180 degrees; thence it passes into conduits or distributing ducts, which convey it to the departments to be heated, where it finds egress from the ducts through branch outlets. These outlets are sometimes simply sheet-iron pipes, with adjustable dampers for regulating the amount of air discharged; others end in register boxes with cast-iron register faces covering them; again others end in cast-iron or sheet-steel hoods, all depending on the local conditions and requirements. The ducts are

required temperature, instead of keeping the grass green. The location of trunk-line ducts and the disposition of the branches therefrom is a matter requiring considerable practical experience and good judgment.

The modern shop has a trussed roof, the bottom chords of which are often 30 to 50 feet above the floor. The ducts have to rest on these trusses, and it is impossible to drive air from them down to the floor in a way that will produce satisfactory results. This method has been tried often enough, but there still remain others who must be convinced of its impracticability by trying it themselves. The only way to obtain an even distribution of heat is to discharge heated air at such points as it is most needed, and where the effect will be most appreciated.

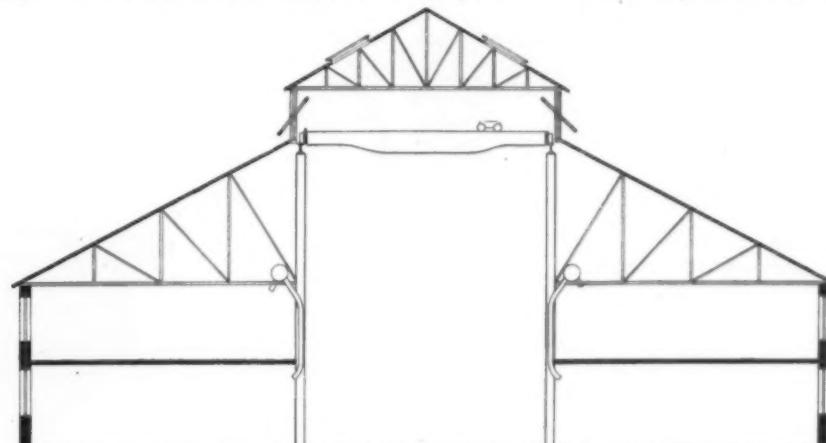
To distribute the heat evenly necessitates running the ducts to all cold spots;

material which is a good conductor of heat.

For buildings which are several stories in height, each story being from 10 to 16 feet high, the treatment should be different. With them it is possible, and sometimes advisable, to introduce the air near the ceiling, blowing downward at an angle of 30 to 45 degrees from horizontal.

Frequently buildings of this character are quite effectively heated from one or two galvanized-iron standpipes run up through the middle of the building, with outlets into each story. This method is practical in buildings not over 60 feet wide; if the building is not over 100 feet long, one riser will be sufficient.

For cotton, woolen or silk mills it has become almost the universal practice to build vertical warm-air flues on the outside face of the pilasters, on both sides of the building. (See accompanying illustra-



SHOP HEATING BY BLOWER SYSTEM.

tion.) These flues usually have a two-inch air space built into the brick work to insulate them. The air is admitted to each story about eight feet above the floor. Deflecting "mill dampers" regulate the volume of air discharged through each opening. The various flues can be supplied at their base from a main duct built either of masonry or galvanized iron.

For manufacturing plants, it is customary to make the trunk-line ducts of such an area as will convey the required volume of air at a velocity varying from 1500 to 2400 feet per minute. In high buildings used for heavy and coarse work, where most of the employees stand or move about considerably, the velocity can be much higher than in shops divided into several stories, or those in which the work is more or less sedentary, like the manufacture of shirts, gloves, etc., where the employees sit all day, simply feeding the material into machines.

Air currents or drafts are of no material moment in the former shops, while in the latter they will produce great discomfort, if not sickness. Therefore, the latter class should have the main ducts of sufficient area to keep the velocity down to 1200 to 1800 feet per minute, and the branches should be proportioned to a velocity of 600 to 1200 feet.

Another advantage the blower system possesses, infrequently brought to notice, is the cooling and comforting effect it has in oppressively warm weather in the summer time. Simply running the fan will of itself greatly relieve the oppressiveness, and when cold water is circulated through the coils the difference is very noticeable.

There is often a wide variation of opinion as to the best temperature to maintain in cold weather. As a general proposition, in foundries and other buildings where the work is active and somewhat vigorous, a temperature, it is too large for the convenient. In machine and woodworking shops it should be from 60 to 65 degrees. In shoe, clothing and other factories employing help where the work is more or less sedentary, the temperature should be 68 to 72 degrees.

The basis for determining the amount of heating surface is the most difficult point to settle. In Northern climates the outside temperature occasionally drops down to 10 degrees below zero, and in Minnesota, Dakota and Montana it goes even lower than 30 degrees below zero. If a plant is designed for these extremely low temperatures it is too large for the conditions prevailing for 95 per cent. of the year. It therefore becomes a question of very fine judgment as to just what should be the basis upon which to figure. The following table will give a fair idea of what the resulting temperatures will be under the varying outside atmospheric conditions, the basis being zero:

Resulting Inside Temperature.

Class of Building.	Temp. Inside		Temp. Outside		Temp. Inside		Temp. Outside		Temp. Inside	
	Desired	Below 0.	30 deg.	20 deg.	10 deg.	Outside	Temp.	Outside	10 deg.	30 deg.
Foundries.....	50	22	32	32	41	50	51	63	70	70
Machine Shops....	60	34	43	43	52	60	61	73	78	78
Clothing Shops....	70	45	55	55	63	70	76	81	86	86
Paint Shops.....	80	59	67	67	74	80	85	89	92	92

From the table it will be noted that for climates where the temperature does not drop below 20 degrees, an inside temperature based on zero outside gives very fair average results; but for climates where the temperature may be from 30 degrees to 10 degrees for several days at a time, the basis is not low enough. For such cases, if the basis is zero, the resulting temperature should be figured about 10 degrees higher than normal, or the temperatures in the table given for machine shops should be taken for foundries and the temperatures for clothing shops should be taken for machine shops.

On the other hand, if the coldest tem-

perature ever reached is zero, and the protracted cold spells are usually at outside temperatures of from 10 to 20 degrees above zero, the basis for determining the size of the plant in zero weather would be 40 degrees at zero for foundries and then taking the tabulated temperatures of foundries for machine shops and the latter for clothing shops.

In this way considerable unnecessary expense can be saved in the initial cost of the plant: it will be smaller, and hence much less costly to operate. It is all well enough to argue that the steam can be cut down on the heating coils and the speed of the fan reduced when the weather conditions moderate, but this is usually not done, simply because it is nobody's business to see that it is done, and instead of thus economizing in the cost of operation, one will invariably find the shop windows and doors open when it becomes too warm inside. Therefore, the more nearly the size of the plant conforms to the needs during average weather conditions, the less it will cost to operate it, and this can only be brought about by settling first on what temperature will be satisfactory for the few days of extremely cold weather. This applies to any heating system, and, if anything, should be given greater weight for any other than the blower system, as no other can be so readily adjusted to varying weather conditions.

With the blower system one or more sections can be cut out of the heating coils and the blower slowed down in moderate weather, or steam at a higher pressure can be turned into the coils and the fan be driven at maximum speed for extremely cold weather.

(Mr. Sill is vice-president and chief engineer of the American Blower Co., Detroit, Mich.)

Duff - Bethlehem Hydraulic Jacks.

The Duff Manufacturing Co., Pittsburgh, Pa., manufacturer of the Barrett jacks



DUFF-BETHLEHEM HYDRAULIC JACK.

and Duff ball-bearing screw jacks, has put on the market the Duff-Bethlehem forged

steel hydraulic jacks. These latter are forged entirely out of steel, and patents covering special features and construction have been allowed the Bethlehem Steel Co., which has designed and perfected this jack and does the special forging necessary, while the Duff Manufacturing Co. has the exclusive handling. (See two accompanying illustrations.)

These new types have special features whereby imperfections and troublesome conditions in hydraulic jack construction are entirely avoided. They weigh from 30 to 60 per cent. less than hydraulic jacks of other makes, of equal lifting capacity and stroke, made possible by the forged

steel construction. They have greater strength, capacity and durability.

Both the cylinder and ram have a solid bottom, thus requiring no packings and dispensing with joints at those points.

Another packing is also entirely dispensed with, viz., insuring closure of the ram piston from the pump socket, as the Duff-Bethlehem jack has a solid ram bottom forged integrally with the pump socket. There are practically only two small packings in the entire Duff-Bethlehem jack, and as joints are also eliminated, there is no chance for leakage and no expense whatever for renewal of packings.

By the improved construction and location of valves the jacks are capable of ex-



DUFF-BETHLEHEM HYDRAULIC JACK.

tending their full length in a vertical, horizontal or inclined position, without any adjustment whatever, and all sizes will operate at any angle. In the operating mechanism a minimum number of parts of simple and strong construction are employed, and any parts may be easily replaced if necessary without special tools; also the valves may be attended to without removing the packing and the packing without removing the valves.

The valves are positive, and require no special adjustments or parts to insure their operating under all conditions. The load may be tripped or may be lowered as slowly as desired, or stop at any point

to jacks capable of lifting hundreds of tons.

The Gibbes Gang Edger.

The Gibbes Machinery Co., 804 West Gervais street, Columbia, S. C., is offering a new design of gang edger, which is illustrated herewith. Describing the machine, the company says:

"During our experience of a quarter of a century in supplying the sawmill trade we have heard the universal complaint urged against all edgers that the saws are so inaccessible as to make the process of sharpening most tedious and troublesome. In order to sharpen the saws on the ordinary edger the saws have to be removed from the mandrel. Anyone who has had the experience knows what a troublesome job this is, and how much time is consumed by it.

"We were so impressed by the demand for a machine which would overcome this difficulty that we set about to design one, with the result that we have produced an edger with a 'hinged frame' or 'folding arch' over the saws and several other unique features, on which patents are pending.

"This illustration describes more clearly than words can the convenience of the 'folding arch.' When it is necessary to file the saws you have only to remove the bolts in the two boxes, fold the arch back and the operator can get in right at the saws and can have the saws sharpened and the machine at work again almost before the saws could be removed from an ordinary edger.

"Another feature that will appeal to the practical mill man is the fact that the machine can be changed from right to left hand or vice versa within 10 minutes. The outboard bearing, which is bolted to the frame, is simply moved to the other side of the machine and the mandrel lifted out and turned around. All parts of the 'Gibbes' edger are interchangeable.

"The arbor is keywayed for the saw colars, and rests in three long eight-and-a-quarter-inch bearings, the outboard bearing insuring rigidity.



THE GIBBES GANG EDGER.

when lowering, if desired. The material used is open-hearth fluid compressed forged steel and bronze, and the inside working parts are drop forgings.

The new jacks are made in all types and capacities adapted to railway and general lifting purposes. The Duff-Bethlehem (low) or telescope type represents highest development in hydraulic jack construction, forged entirely out of steel, fitted with an improved duplex pump, automatically regulating the change of speed proportional to the load being lifted, and made regularly with capacities ranging from 30 tons to 300 tons, and higher capacities if required.

The Duff Manufacturing Co. provides jacks for lifting a few hundred pounds up

"The working parts are contained in a substantial cast-iron husk frame, which rests firmly on the floor, and the tables are mounted on heavy cast-iron legs.

"The improved lumber guide is very simple and accurate, having an instantaneous adjustment of four and one-half inches.

"The scales indicating the position of the saws are on the end of the front table right under the eye of the operator, and are adjustable so lumber can be ripped full or scant.

"The driven feed rolls are corrugated, but will be furnished smooth when the machine is to be used for planing-mill work.

"A front pressure roll can be furnished when ordered, at an additional price."

Construction Department

TO OUR READERS!

In order to understand and follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS' RECORD seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns, the name of one or more incorporators of a newly incorporated enterprise should be shown on the letter addressed to that town, or to the town of the individual sought, as may be shown in the item, as sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. This will help to insure prompt delivery of your communication, although it is inevitable that some failures on the part of the postal authorities to deliver mail to new concerns will occur.

WRITE DIRECT

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter reported is likely to receive quicker and surer attention than a mere circular.

BRIDGES, CULVERTS, VIADUCTS

Baltimore, Md.—J. Barry Mahool, Mayor, has approved ordinance for extending West Baltimore street. This work will include construction of proposed bridge across Gwynn's Falls, which will probably be built by department of B. T. Fendall, City Engineer; cost about \$100,000.

Brownsville, Texas.—St. Louis, Brownsville & Mexico Railroad, R. C. Burgess, resident engineer, Knoxville, Tenn., and National Lines of Mexico, A. Clark, general manager, Mexico City, Mexico, recently stated to jointly construct international bridge across Rio Grande River at Brownsville, awarded contract for substructure to the Foundation Company of New York, and for superstructure to Wisconsin Bridge & Iron Co., North Milwaukee, Wis.; bridge will be about 500 feet long.

Conowingo, Md.—York Bridge Co., York, Pa., has contract to rebuild Conowingo Bridge over Susquehanna River; estimated cost about \$40,000 and \$60,000. (Previously mentioned.)

Dawson, Ga.—Terrell county will vote April 15 on issuance of \$25,000 bonds for constructing steel bridges. Address County Commissioners.

Edenton, N. C.—Norfolk & Southern Railway, Thomas Fitzgerald, general manager, Norfolk, Va., has secured concession from War Department, Washington, D. C., allowing installation of one draw instead of two lift draws, in eight-mile trestle across Albemarle Sound, N. C. This will reduce cost about \$50,000. Instead of second lift draw there will be placed 30-foot draw of less expensive type; lift draw proposed will cost, including foundation, between \$80,000 and \$90,000; bridge to be single-track railroad structure, 27,730 feet long, mainly of pile trestle work, and will connect Skinner's Point with Mackies Ferry, N. C.; \$560,000 originally allowed for completion; original cost estimated at \$1,000,000; McLean Contracting Co., 902-903 Maryland Trust Bldg., Baltimore, Md., has contract for construction. (Mentioned in January.)

Ferguson, S. C.—Santee River Cypress

Lumber Co., M. E. Grey, general manager, will construct bridge of heavy E-45 type across river.

Jenks, Okla.—Tulsa county and Jenks township will erect bridge over Arkansas River at Jenks; steel structure; 1400 feet long, and approaches; cost approximately \$40,000; Board of County Commissioners, Tulsa, will probably advertise for bids about April 1. (See "Machinery Wanted.")

Kaufman, Texas.—Kaufman county will construct 18 steel bridges. Address County Commissioners.

Knoxville, Tenn.—Frank Matthews of City Engineer S. D. Newton's office has prepared plans for the proposed Asylum-avenue viaduct. As now proposed, structure is to be 1100 feet long; reinforced concrete; Y-shaped; roadway to be 28 feet wide, with 6-foot walk on either side; between two main abutments distance to be 400 feet, with 100-foot approach off 2d street from Forest avenue; maximum height, 50 feet; viaduct committee of City Council expects to advertise for bids for construction within next 30 days; city will soon sell \$50,000 bond issue; Louisville & Nashville Railroad and Southern Railway will pay respective proportions.

Lynchburg, Va.—City awarded contract to R. J. Malone & Co., Lancaster, Pa., for construction of Fifth-street viaduct at \$41,129. (Recently mentioned.)

Magnolia, Miss.—Pike county will construct steel bridge across Bogue Chitto River at Holmesville, and also across Tangipahoa River; bids to be opened April 5; W. C. Vaught, clerk. (See "Machinery Wanted.")

Natchez, Miss.—Natchez & Southern Railway, C. B. Brownell, general manager, Natchez, will construct steel or concrete bridge on South Canal street to cost about \$5000; plans not decided.

Pee Dee, S. C.—Atlantic Coast Line Railroad awarded contract to Phillips & Allport, Richmond, Va., for constructing concrete piers and steel girders across Great Pee Dee River. (See item under Wilmington, N. C.)

Rotan, Texas.—Austin Bros., Dallas, Texas, have received contract to erect proposed 400-foot highway bridge across Salt Prong of Brazos River, near Rotan; material purchased; construction completed by April 1.

Savannah, Ga.—Chatham county will construct reinforced concrete lock and bridge, Buckhalter Canal outlet; bids to be opened May 3; G. Reuben Butler, clerk Chatham County Commissioners. (See "Machinery Wanted.")

Wilmington, N. C.—Atlantic Coast Line Railroad, E. B. Pleasants, chief engineer, Wilmington, will replace five and one-quarter miles of wooden trestle with concrete piers and steel girders; work will include rebuilding of Pee Dee River trestle at Pee Dee, S. C.; trestle over Santee River, between Lanes and Charleston, S. C., and over Savannah River, between Hardeeville, S. C., and Savannah, Ga. (See item under Pee Dee, S. C.)

CANNING AND PACKING PLANTS

Baton Rouge, La.—Baton Rouge Canning Co., recently noted organized by N. K. Knox and others, has placed contract with Chicago Building & Manufacturing Co., 240 West Lake St., Chicago, for erection of plant complete.

Enid, Okla.—Grain, Broomcorn and Stock Growers' Association reported to establish packing plant.

Fort Worth, Texas.—Armour & Co., Chicago, Ill., are understood to have approved plans for additions and improvements to cost \$500,000 at their Fort Worth packing plant. (Previously mentioned.)

Fort Worth, Texas.—Swift & Co., Chicago, Ill., are understood to have approved plans for additions and improvements to cost \$500,000 at their Fort Worth packing plant. (Previously mentioned.)

Leola, Ark.—Leola Canning Co., recently noted to establish cannery, will erect two-story building to cost \$4700; mill construction; contract let for machinery costing \$2500; product, principally tomatoes; capacity, 800 cans daily; W. H. Reid, president; R. F. Butler, vice-president; R. E. Jett, secretary and treasurer; E. W. Moore, manager.

Miami, Fla.—The Loveland Grove, W. A. Hobart, Loveland, manager, will establish proposed packing-house; will erect two-story building, 100x50 feet, at cost of \$10,000; architect, B. F. Davis of Rose Concrete Co., Miami; will install machinery for packing

citrus fruits; daily capacity, 1000 cans. (See "Machinery Wanted.")

Nashville, Tenn.—Tennessee Packing & Stock Yards Co. incorporated with \$2,000,000 capital stock; W. J. Cummins, president; John A. Hawkinson, vice-president and general manager; Harry Anderson, secretary; Samuel S. McKay, treasurer; consolidation of Tennessee Packing & Provision Co., Nashville Stock Yards Co., Enterprise Soap Works and Mr. Cummins' soda factory interests; will expend about \$100,000 for improvement to packing plant, and will also improve other plants.

Pocahontas, Ark.—Pocahontas Canning Co. incorporated with \$5000 capital stock; W. T. Bishop, president; D. L. Wiley, vice-president; Ben A. Brown, secretary-treasurer.

Pulaski, Tenn.—Richland Canning Co. incorporated with \$6500 capital stock by W. L. Abernathy, W. P. Townsend, Foster Yarborough and others. (Recently noted.)

Tulsa, Okla.—Tulsa Canning Co. will be organized by John Koester and others of Missouri to establish cannery at Tulsa; purchased site from Edward Smittle and will erect at least two buildings.

CLAYWORKING PLANTS

Fort Worth, Texas.—Brick.—Cobb Brick Co. incorporated with \$30,000 capital stock by H. H. Cobb, F. C. Cobb and J. C. Harris.

Johnson City, Tenn.—Bricks.—Johnson City Brick Co. incorporated with \$50,000 capital stock by Bowman & Son, Paris, Texas; will establish plant with capacity of 40,000 bricks daily; contract for machinery awarded to H. Brewer & Co., Tecumseh, Mich.

New Decatur, Ala.—Soil Pipe.—Robert Dyas and associates, Nashville, Tenn., contemplate establishment of soil-pipe plant in New Decatur.

Ouachita, P. O. at Versailles, Mo.—Ouachita Coal & Clay Products Co. is proceeding with erection of fire-clay-products plant on 1720 acres of land; framework completed; to be covered with galvanized corrugated iron; building to be bricked around frame; plant (designed for enlargement) will at start have 50,000 bricks daily capacity; machinery purchased; later clay-washing and pottery plants will be added.

Wheeling, W. Va.—Riverside Potteries Co. has organized with \$500,000 capital stock; J. E. Wright, president and general manager; A. A. Wheat, vice-president and treasurer; will take over Wheeling Potteries Co., make extensive improvements, increase capacity and operate. (Recently mentioned.)

COAL MINES AND COKE OVENS

Charleston, W. Va.—Crescent Coal & Timber Co. incorporated with \$2,500,000 capital stock by James Flynn, C. C. Stone, L. G. Summerfield and S. P. Richmond, all of Charleston, and H. R. Van Dusen, Scranton, Pa.

Fairmont, W. Va.—Consolidation Coal Co., Clarence W. Watson, president, Continental Bldg., Baltimore, Md., will increase capital stock from \$10,250,000 to \$20,000,000; controls various mining companies and properties in West Virginia, Maryland and Pennsylvania.

Fort Gibson, Okla.—William Brown reported contemplating development of coal mines.

Gilmer County, W. Va.—Cleveland and Chiago capitalists reported as having purchased properties of Cosmopolitan Coal & Coke Co. in Gilmer and Braxton counties, W. Va., comprising plant and 11,000 acres of coal land; 500 acres held under long lease; purchase price, \$1,000,000; Phillip Ogletree, Vanderbil, Pa., is president of company, and W. H. Martin, Uniontown, Pa., general manager.

Island, Ky.—Memphis Mining Co. incorporated with \$60,000 capital stock by R. H. Richardson, C. C. Watts, E. R. Callaway, Stogie Davis and W. F. Stewart, all of Charleston, W. Va.; has taken over Memphis Coal Co. at Island, consisting of 480 acres under lease and 2435 acres with mineral and mining rights purchased outright. One mine is in operation and purchaser proposes to open another on Green River.

Lauderdale, Miss.—J. D. Gully considering development of coal mines.

McAlester, Okla.—McAlester Coal & Coke Co. incorporated with \$200,000 capital stock by R. C. Lupton, H. A. Pierce and G. B. Lewis, all of Wilmington, Del.

Morgantown, W. Va.—J. V. Thompson, Uniontown, Pa., reported as having purchased for development 500 acres of coal land in Monongahela county; purchase price \$80,000.

Rockdale, Texas.—Rowell & Wells purchased 800 acres of land and lignite mines of Worley Coal Co. at \$200,000.

Smith Mills, Ky.—Smith Mills Coal & Mining Co., W. W. Cooper, general manager, will restore portion of plant recently reported burned; will rebuild boiler and engine-rooms and erect temporary tipple; plans for permanent steel or wood tipple not decided; order for supplies not placed; boiler and engine, but slightly damaged, to be used again.

Tazewell, Va.—Thomas T. Boswell, president of Merchants' Coal Co., Maryland Trust Bldg., German and Calvert Sts., Baltimore, Md., has leased from James S. Browning of Pocahontas, Va., coal-mining privileges on about 900 acres of coal lands in Tazewell county; has privilege of purchase at \$1,300,000; will operate mines now open and undertake further developments.

CONCRETE AND CEMENT PLANTS

Huntsville, Ala.—Huntsville Concrete Construction Co. incorporated with \$10,000 capital stock to manufacture concrete building materials, etc.; John M. Hampton, president; E. H. Trebes, general manager, and Robert B. Wade, secretary-treasurer.

Johnson City, Tenn.—Henry R. Brown, Greeneville, Tenn., will construct cement-block factory at Johnson City; about \$5000 to be invested.

Okarche, Okla.—Okarche Milling Co. will build factory 60x150 feet for manufacturing cement blocks and cement partitions; W. M. Garrison, manager.

San Antonio, Texas.—San Antonio Portland Cement Co. has closed contracts as follows: Allis-Chalmers Company, Milwaukee, Wis., complete cement-mill equipment, to be driven by electric motors, power equipment to be direct-connected units, 600 horse-power engines, etc.; Smith Gas-Power Co., Lexington, Ohio, three 200-horse-power producers to operate in battery on Texas lignite. (Other details previously reported.)

Trenton, Tenn.—R. R. Collins and Robert Dement will manufacture concrete brick and blocks.

COTTON COMPRESSES AND GINS

Haleyville, Ala., R. F. D. No. 2—C. A. Threadgill and J. H. Smith will establish cotton gin with 15 bales daily capacity; will erect building 30x60 feet to cost \$250; will open proposals April 20 for machinery costing \$2000.

Italy, Texas.—George K. G. Stroud and E. C. Woods are promoting establishment of cotton compress.

Kyle, Texas.—Kyle Oil & Gin Co. will increase capital stock from \$20,000 to \$75,000 and rebuild 50-ton oil mill and eight-stand cotton gin. (Lately reported burned.)

Mannford, Okla.—Mannford Cotton Co., J. H. Bellis, president, recently reported incorporated (under "Miscellaneous Enterprises"), will operate cotton gin; machinery purchased; will erect \$3000 building of mill construction.

Notasulga, Ala.—Notasulga Oil Mill Co. will install ginnery with capacity of 100 bales daily.

Soil (not a postoffice), Texas.—Chas. Fehlis & Co., Reedville, Texas, recently noted to establish cotton gin, will install plant with capacity of 20 bales daily; open proposals for machinery April 5; will erect one-story buildings for gin and for general merchandise; frame structures; cost \$700; cost of machinery, \$2000. (See "Machinery Wanted.")

Wetumka, Okla.—Ogletree Gin Co., recently reported incorporated by Geo. W. Ogletree and others, will install 4-80-saw stands; machinery purchased; capacity 50 bales daily; will erect \$2500 building with iron siding and roof; officers not elected.

COTTONSEED-OIL MILLS

Belzoni, Miss.—Belzoni Oil Works incorporated with \$75,000 capital stock by J. C. Perry, J. B. Perry and W. B. Hoffa.

Childress, Texas.—Board of Trade promoting establishment of three-press cottonseed-oil mill.

Claxton, Ga.—It is proposed to form com-

pany to build cotton-oil mill. W. F. Freeman can probably give information.

Fort Worth, Texas.—Winfield Scott will, it is reported, establish cottonseed-oil mill to cost \$100,000. (See "Miscellaneous Manufacturing Plants.")

Piedmont, Ala.—W. H. Pinson, Atlanta, Ga., and others are promoting organization of company to establish cottonseed-oil mill and fertilizer mixing plant at Piedmont to cost about \$60,000.

Texarkana, Ark.—Arkansas Cotton Oil Co. contemplates rebuilding plant recently reported burned; loss \$25,000.

Townville, S. C.—Fork Township Oil Mill, recently reported organized (under Anderson, S. C.) by John H. Bleckley and others, to operate mill purchased by Mr. Bleckley, will have necessary repairs made locally; one-press mill; capacity 20 tons seed daily; to incorporate with \$25,000 capital.

ELECTRIC-LIGHT AND POWER PLANTS

Alexander City, Ala.—Big Hillabee Power Co. incorporated to develop power of Big Hillabee Creek at Lindsey Shoals, six miles from Alexander City; will furnish light and power in Alexander City; L. W. Robert, president; J. W. Preston, Jr., vice-president and general manager; L. W. Robert, Jr., secretary and treasurer; Park A. Dahlia, LaGrange, Ga., chief engineer; main office, 1023 Candler Building, Atlanta, Ga.; office of general manager, Alexandria City. Address correspondence to main office.

Augusta, Ga.—Augusta Railway & Electric Co. is arranging for proposed improvements to power plant on Augusta Canal, including installation of auxiliary steam plant and improvement of water-power machinery. James R. League, general manager.

Birmingham, Ala.—Birmingham District Coal, Light & Power Co. incorporated with \$15,000 capital stock to furnish electric-light and power; franchise secured; T. H. Aldrich, president, and T. H. Aldrich, Jr., secretary-treasurer.

Covington, Va.—E. M. Nettleton, J. R. Pirkey and William McD. McAllister applied to City Council for franchise for electric-light plant.

Follansbee, W. Va.—Follansbee Water & Light Co. incorporated by Thomas J. Mahan and others. (See "Water-works.")

Gaffney, S. C.—City will vote March 31 (not March 19, as lately stated) on issuance of \$125,000 of bonds for extension of electric-light and water-works systems and construction of sewer system; W. H. Ross, Mayor.

Heber, Ark.—Heber Light & Power Co., A. N. Hilger, president, recently noted to establish plant, has purchased machinery and supplies; steam-power.

Houma, La.—A. A. Bonvillain of Houma has contract at \$3619 to build addition to municipal power-house in which to install electric-light plant; William Watkins, recently reported as having secured contract, has withdrawn bid; Anderson Offutt, 429 Carondelet St., New Orleans, La., is electrical engineer; D. Angus, Clerk.

Newport, Tenn.—Dr. C. G. Holland, acting as agent for capitalists, is securing options on property along French Broad River from Oldtown to Bridgeport, Tenn. C. D. Cushing, Asheville, N. C., and others are interested in development of water-power of French Broad River and propose to construct 50-foot dam across river. These options are being secured for damages that might be incurred from overflow on account of constructing dam.

Portsmouth, Va.—City invites bids until April 13 for purchase of franchise and contract to light streets, public buildings, etc., and for furnishing electric power where required; L. P. Slater, City Clerk. (See "Machinery Wanted.")

Prague, Okla.—City will open bids March 23 for furnishing material for construction of electric-light plant and water-works; F. N. Newhouse, town clerk; Michel-Cooke Engineering & Construction Co., supervising engineers, Joplin, Mo. (See "Machinery Wanted.")

Randallman, N. C.—Randolph Power Co., J. R. Owens, secretary and treasurer, reported incorporated in January (under Greensboro, N. C.), will establish small steam plant; 75 kilowatts capacity.

Ripley, Tenn.—Ripley Light, Water & Ice Co. increased capital stock to \$15,000 and will undertake improvements.

Ryan, Okla.—City will vote on issuance of \$69,000 of bonds for construction of electric-light plant, sewer system and water-works. Address The Mayor.

Valdosta, Ga.—City will vote April 14 on

issuance of \$20,000 of bonds for increasing number of electric lights, etc. Address The Mayor. (See "Water-works.")

Wadesboro, N. C.—A. H. Richardson, 509 N. Pine St., Charlotte, N. C., is having surveys made with view to developing water-power property near Wharfstown; canal half mile long will probably give fall of 150 feet.

Watonga, Okla.—City has voted \$3400 of bonds for extension of electric-light system. Address The Mayor.

Waycross, Ga.—City Council is considering purchase of electric-light plant to be operated in connection with water-works. Address The Mayor.

Waynoka, Okla.—Waynoka Electric Light & Power Co. incorporated with \$25,000 capital stock by Grant Miller and George D. Miller.

Wichita Falls, Texas.—Wichita Falls Water & Light Co. increased capital stock from \$75,000 to \$100,000.

Wynnewood, Okla.—City has voted \$14,000 of bonds for electric-light plant and water-works. Address The Mayor.

FLOUR, FEED AND MEAL MILLS

Delhi, La.—King Bros. & Co. contemplate installing small milling plant for grinding cornmeal, etc. (See "Machinery Wanted.")

Roanoke, Va.—Howery & Taylor Milling Co. incorporated with \$50,000 capital stock; W. E. Howery, president, Salem, Va.; W. P. Huff, first vice-president, Roanoke; J. H. Taylor, secretary and treasurer, Snowville. (Recently mentioned.)

FOUNDRY AND MACHINE PLANTS

Baltimore, Md.—Flatirons.—Flatiron Co. incorporated with \$30,000 capital stock by Charles Slunt, 701 West Fayette St.; Harry Hechheimer, 206 Gaither Estate Bldg., both of Baltimore, and others.

Bessemer, Ala.—Heating Appliances.—American Radiator Co., main office Chicago, Ill., is considering, it is reported, Bessemer as location of proposed Southern plant.

El Reno, Okla.—Foundry.—El Reno Foundry Co. will rebuild plant reported burned; loss about \$3000; new structure to be twice size of burned plant.

Knoxville, Tenn.—Machine Shop.—W. J. Savage Company will erect addition to plant; brick; two stories; 80x125 feet; will install additional machinery to manufacture specialties; new plant for machine shop and stock and warerooms; present plant for woodworking and sheet metal; contract for machinery closed.

Louisville, Ky.—Plows.—B. F. Avery & Sons Co. will issue bonds for erection of additional plow plant; site 25 acres.

Mt. Vernon, Texas—Plows.—M. L. Conway, McNeill, Ark., proposed establishment of plow factory in Mt. Vernon to cost \$3000.

Poplar Bluff, Mo.—Rails, etc.—St. Francis Rail & Iron Co. incorporated with \$1,000,000 capital stock by A. S. Pickel and others.

Ruston, La.—Car Wheels, etc.—Ruston Foundry & Machine Co. will enlarge plant; will install additional machinery to manufacture car wheels, etc.

GAS AND OIL DEVELOPMENTS

Bartlesville, Okla.—Baum Oil Co. incorporated with \$10,000 capital stock by R. G. Adams and R. H. McGarvie, both of Bartlesville, and J. V. McMahon, Anderson, Ind.

Bartlesville, Okla.—State Oil & Gas Co. incorporated with \$15,000 capital stock by W. J. Livingston, A. J. Callalah, both of Bartlesville, and E. J. Lambert, Independence, Kans.

Cherokee, Okla.—Bryan & Cherokee Oil & Development Co. incorporated with \$10,000 capital stock by G. A. Stewart, C. B. Gehre and G. A. Stewart, all of Bryan, Okla.

Comanche, Okla.—Watkins Gas Co. incorporated with \$25,000 capital stock by G. A. Kline, A. S. Peck and others.

Galveston, Texas.—Gordon Oil Co. incorporated with \$5000 capital stock by J. R. Cheek, Fred Hartel, W. S. Keever and C. S. Gordon.

Huntington, W. Va.—Hyman Gas & Oil Co. incorporated with \$25,000 capital stock by S. J. Hyman, T. L. Doolittle, A. L. Gregory and others.

Lafayette, La.—The Texas Company, main office, Houston, Texas, reported to establish oil-distributing plant at Lafayette.

Lenapah, Okla.—Keith Oil & Gas Co. incorporated with \$10,000 capital stock by C. M. and S. E. Keith and others.

Parkersburg, W. Va.—Putnam Oil & Gas Co. incorporated with \$20,000 capital stock by W. D. Moore, John Marshall and others; will develop 15,000 acres of Putnam county oil lands.

Ryan, Okla.—City is considering two applications for franchise to furnish city with natural gas; one to be submitted to vote of people; one company proposes to pipe gas from Petrolia wells, the other to bore test well in community. Address The Mayor.

Shreveport, La.—The Texas Company, main office, Houston, Texas, will, it is reported, establish oil refinery near Shreveport.

St. Mary's, W. Va.—Parsons & Sweeny Oil Co. incorporated with \$300,000 capital stock by O. C. Sweeney, C. A. Covell, both of St. Mary's; J. C. Parsons, Pittsburg, Pa., and others.

Taylor, Texas.—W. B. Johnson and associates, Palestine, Texas, and John Freeland of San Angelo Gas & Light Co., San Angelo, Texas, have each applied for franchise to install gas and light plant at Taylor.

Tulsa, Okla.—Ryan Oil & Gas Co. incorporated with \$10,000 capital stock by Edward C. Ryan, Emma C. Ryan, both of Tulsa, and William C. Christie, New York.

ICE AND COLD-STORAGE PLANTS

Jessups, Md.—Directors House of Correction will install ice plant; offices with Austin L. Crothers, Governor, Union Trust Bldg., Charles and Fayette Sts., Baltimore, Md.

Luray, Va.—W. E. Selbert and others organized company with \$8000 capital stock to establish six-ton ice plant; machinery ordered from Frick Company, Waynesboro, Pa. (See "Machinery Wanted.")

Middleton, Md.—Charles M. Shank will establish six-ton ice plant; contract for machinery awarded to Frick Company, Waynesboro, Pa.

Piedmont, W. Va.—Piedmont Ice Co., recently reported incorporated, has elected Z. T. Kalbaugh president, A. Spates Brady vice-president, C. D. Jenkins secretary and M. P. Gannon treasurer; has placed contract for buildings and machinery; construction commenced. (Notice of March 4 incorrect in name.)

Ripley, Tenn.—Ripley Light, Water & Ice Co. has increased capital stock to \$15,000, and will make improvements; will install engines and boilers and 15-ton ice plant; bids on machinery to be opened May 1; W. A. McCallum, manager. (See "Machinery Wanted.")

Shreveport, La.—Consumers' Ice & Cold Storage Co. incorporated with \$50,000 capital stock; F. A. Tusten, president; Andrew Kuhn, vice-president; Charles L. Horn, secretary and treasurer.

Velasco, Texas.—G. W. Berrian, Lake Charles, La., contemplates establishment of 20-ton ice plant in Velasco.

Waynesboro, Va.—Crystal Fount Ice Co. organized by J. M. Coynier, R. M. Hughes, Basic City, Va., and Clem Bros., Staunton, Va.; will establish ice plant; will erect structure 40x48 feet; boiler-room, 12x40 feet; frame; ordinary construction; capacity, six tons plate ice.

IRON AND STEEL PLANTS

Gadsden, Ala.—Iron Furnaces, etc.—Southern Iron & Steel Co. incorporated in New Jersey with capital stock of \$17,000,000, \$10,000,000 common and \$7,000,000 preferred, by Daniel G. Bollesvain and associates. This is a reorganization of Southern Steel Co., owning iron furnaces, rod mills, coal and iron mines, etc., in Alabama, Georgia and Tennessee. Mr. Bollesvain is of New York, and is secretary of reorganization committee. W. H. Hassinger, Birmingham, Ala., is chairman of committee; reported he will be elected president of new corporation. (Other details heretofore announced.)

LUMBER-MANUFACTURING PLANTS

Alexander, W. Va.—Croft Lumber Co., J. H. Henderson, president, branch office, Pittsburgh, Pa., purchased 20,000 acres of timber land estimated to contain 175,000,000 feet of lumber; contemplates erection of single band mill and resaw with capacity of about 75,000 feet daily; is negotiating for machinery.

Ashland, Ky.—Vansant-Kitchen Lumber Co. has purchased timber land on Kentucky River and will install mills.

Birmingham, Ala.—Kingston Planing Mill Co., L. Nygren, president, Eighth Ave. and 47th St N., recently reported incorporated; will establish plant to manufacture rough and dressed lumber, lath and shingles, doors and window frames, interior finish, etc.; will erect \$1500 mill-construction building, 60x90 feet; will install woodworking machinery costing \$4000.

Charleston, W. Va.—Crescent Coal & Timber Co. incorporated with \$2,500,000 capital stock by James Flynn and others. (See "Coal Mines and Coke Ovens.")

Charleston, S. C.—Oconee Timber Co. incorporated with \$250,000 capital stock by H. W. White and P. V. Scarpa.

Durant, Okla.—Pioneer Hardwood Co., Wagoner, Okla., will erect factory at Durant.

Ekron, Ky.—Huff & Kasey will install saw-mill and engine to cut 65,000 feet of lumber; also have contract to saw 150,000 feet for Ben Clarkson.

Fitzpatrick, W. Va.—Raleigh Lumber Co., Berkeley, W. Va., W. M. Ritter, president, Columbus, Ohio, recently noted to rebuild plant at cost of \$75,000, has placed order for machinery costing \$35,000 with Clark Bros. Company, Belmont, N. Y.; will erect band mill and resaw, including boiler and engine house; mill, frame construction; boiler and engine-house fireproof; manufacture hardwood, white pine and hemlock; capacity, 60,000 feet daily.

Flatwood, Va.—Yellow Poplar Lumber Co. will enlarge plant, installing three portable mills; also contemplates establishing large mills in Dickinson county.

Georgetown, Texas.—Bedford Lumber Co. will rebuild main building, buggy-house, implement-house, lumber sheds and planing mill reported burned; loss about \$30,000.

Hannibal, Mo.—Magnolia Pine & Cypress Co. incorporated with \$650,000 capital stock by George W. Dulaney, George A. Mohan, both of Hannibal; John V. Rider, Dubuque, Iowa, and others.

Mansfield, La.—Central Lumber Co., Ltd., has purchased large tract of timber land and will establish sawmill.

Martin County, Ky.—Rockcastle Lumber Co. incorporated with \$200,000 capital stock by C. L. Ritter, H. T. Lovett, E. E. Williams, all of Huntington, W. Va., and others.

McHue, Ark.—Company organized by G. W. Purcelley and J. J. & W. M. Fowler to establish finishing plant at McHue; company owns sawmill in mountains and will cut lumber there and haul to finishing plant.

Mississippi.—Mulford Parker, Ellisville, Miss., will erect sawmills in Mississippi.

Mobile, Ala.—Gulf City Hardwood Co. incorporated with \$5000 capital stock; L. L. Shertzer, president; H. H. Case, vice-president; W. J. Hearn, treasurer.

Nacogdoches, Texas.—Henry Millard has purchased for \$4000 timber on 300 acres, estimated to cut 1,500,000 feet.

Norfolk, Va.—Camden Lumber Co. has increased capital stock from \$25,000 to \$75,000.

Norton, Va.—Lyon Lumber Co. has, it is reported, purchased timber land in Stone Mountain; will install additional mills and largely increase operations.

Pensacola, Fla.—J. C. Porter Co. incorporated with \$10,000 capital stock; J. Clark Porter, president; W. C. Porter, vice-president; E. B. Erwin, secretary and treasurer.

Pocahontas County, W. Va.—Chaffey-Wilson Lumber Co. incorporated with Richard Chaffey president, Merritt Wilson vice-president and manager, George W. Wilson secretary and treasurer, all of Elkins, W. Va.; will develop 17,248 acres timber land recently noted purchased from John T. McGraw, Grafton, W. Va., and others; will construct railway and build sawmill with daily output of 100,000 feet of lumber.

Salisbury, N. C.—W. B. Smoot, A. C. Cheatham and associates have sold 1000 acres of timber land to Maryland manufacturers, who contemplate building mills and otherwise developing the property.

Starkville, Miss.—Starkville Lumber Co. incorporated with \$700 capital stock by J. D. Deanes, R. A. Lampkin, F. L. Hogan and others; J. D. Deanes, manager; manufactures rough and dressed yellow pine lumber; capacity 800 feet daily; also deals in builders' supplies.

St. Louis, Mo.—Wells Lumber Co. incorporated with \$50,000 capital stock by W. B. Wells, S. H. Fullerton and J. C. Cramer.

War, W. Va.—Forest City Lumber Co. incorporated with \$5000 capital stock by Geo. F. Strother, H. C. Beavers and others.

War, W. Va.—Dry Fork Planing Mill Co. incorporated with \$5000 capital stock by George F. Strother, H. C. Beavers, J. F. Hause and others.

White, Ark.—Gulledge Bros. Lumber Co., W. T. Gulledge, president, will rebuild saw-mill and planer recently reported burned; buildings 64x84 and 32x46 feet; cost \$2000; cost of machinery \$4000; manufactures yellow pine lumber; capacity 50,000 feet daily.

Wilmington, N. C.—W. W. Koch has purchased lumber mill at Wilmington from Chas. M. Betts, Philadelphia, Pa.; will overhaul and rebuild plant; improvements have begun under supervision of W. F. Koch, who will superintend operation of plant.

MINING

Asheville, N. C.—Barytes.—Standard Mining Co. incorporated with \$20,000 capital stock by R. S. Smith, James G. Calvin and Geo. H. Davidson.

Bighill, Texas—Sulphur.—Matagorda Oil & Mineral Co., Bay City, Texas, has leased sulphur deposits at Bighill to St. Louis firm for development.

Franklin, N. C.—Gold.—Portis Mining Co. incorporated by M. Boykins, Philadelphia, Pa.; Jas. McMullan of Dickson, Butler & McCouch, Philadelphia, and T. L. Herrman of Guggenheim, Untermyer & Marshall, New York; purchased and will develop Portis gold mine near Franklin.

Hot Springs, Ark.—Lead and Zinc.—Company organized by George A. Klm, George D. Morrison, both of Pittsburgh, Pa., and others has purchased lead and zinc land near Hot Springs; to expend \$100,000 in developing.

Moorefield, W. Va.—Copper and Silver.—A. W. Harper contemplates developing copper and silver deposits.

Morrow, Ark.—Lead and Zinc.—Washington County Lead & Zinc Co. incorporated with \$100,000 capital stock to develop lead and zinc deposits; W. H. Norris, president; J. C. Bell, vice-president; B. H. Meligs, secretary; J. W. Kirkland, treasurer; will install 150-ton mill. (Recently mentioned.)

Mt. Pleasant, Tenn.—Phosphate.—Ruhm Phosphate Mining Co., recently reported incorporated, has taken over plants of other companies; will produce lump and ground phosphate rock; capacity about 400 tons daily; H. D. Ruhm, president; John Ruhm, Jr., secretary-treasurer and general manager.

Shawsville, Va.—Zinc.—J. A. Albert contemplates developing zinc deposits.

Shenandoah, Va.—Naked Creek Mining Corporation incorporated with \$40,000 capital stock; R. H. Huddle, president; R. F. Watson, vice-president; W. A. Smith, secretary and treasurer, all of Furnace, Va.

Webb City, Mo.—Lead and Zinc.—A. M. Gibson Realty & Mining Co. incorporated with \$5000 capital stock by A. M. Gibson, J. B. Gibson and L. E. Bates.

MISCELLANEOUS CONSTRUCTION WORK

Almeda, Texas—Drainage.—Harris County Commissioners, Houston, Texas, adopted report of George F. Horton, engineer, Houston, and passed ordinance authorizing issuance of \$200,000 of bonds for drainage; proposed to clean out and straighten both Sims Bayou and Clear Creek and cut canals and ditches at frequent intervals between the two streams; A. E. Amerman, County Judge, Houston. (Bond issue of \$200,000 recently reported voted.)

Anadarko, Okla.—Dam.—T. C. Bradford, Box 65, is engineering construction of reinforced concrete dam (Amburson hollow-core type) across Washita River.

Columbia, Tenn.—Underpass.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., and Chattanooga & St. Louis Railway submitted proposition to city officials for construction of underpass and opening of street 40 feet wide leading from Mooresville turnpike to McKay street.

Galveston, Texas—Fishing Pier.—Bettison Fishing Pier Co. is name of company recently mentioned to be incorporated with \$10,000 capital stock; will erect fishing pier 110 feet long and about 50 feet wide; contract awarded to Charles Funk of Galveston; W. J. Chapman, Russell Markwell and M. C. Banks are incorporators. (Further facts mentioned recently.)

Lynchburg, Va.—Heating Plant.—Virginia Christian College awarded contract for construction of building in which to install central steam-heating plant for heating its three buildings; cost of building \$3000.

New Orleans, La.—Levee.—State Board of Engineers will prepare specifications, under direction of F. M. Kerr, chief engineer, for shell roadway on levee bank along New Basin Canal; Board of Control of New Basin Canal and Shell Road will supply funds and Walter C. Murphy, as superintendent of board, will supervise construction; bids for material will be invited. Tentative plans include following estimates: Six-inch rolled-sand foundation (sand to be placed on levee banquette), requiring 11,000 cubic yards, to cost \$11,000; on top of sand 12 inches of oyster shells, rolled, requiring 150,000 barrels, estimated to cost \$15,000; lastly, 6 inches of rolled clamshells, requiring 75,000 barrels, to cost \$15,000; total cost will be \$41,000, not including \$400 additional, marginal figures; length of new levee, 14,803 feet; shell road

will be of equal length, making cost \$15,000 per mile; banquette will contain about 115,000 cubic yards of earth and will be 40 feet wide, with slope of one foot, allowing drainage from basin. (Recently mentioned.)

Savannah, Ga.—Jetty.—Roderick G. Ross, Jacksonville, Fla., has contract to raise and extend North Long Island training wall and Cockspur Island training wall. (Location and name of contractor omitted by printing error in issue of March 11.)

Shreveport, La.—Levee.—Board of Commissioners Caddo Levee District, W. V. Robson, president, Robson, La., invites bids until March 24 for construction of about 22,000 cubic yards of levee on Coushatta levee and about 45,000 cubic yards on Eagle Bend levee; office of board, 518 Spring street, Shreveport. (See "Machinery Wanted.")

St. Louis, Mo.—Subway.—Company has been organized and plans and estimates have been practically completed for proposed passenger and express subway from near Eads Bridge to Taylor avenue, in western portion of city; estimated cost, \$40,000,000; four branch lines are also planned; city ordinance is being prepared to grant franchise in April; William J. Gates, assistant secretary Arkansas Pacific Railway, can give information.

Tallulah, La.—Drainage.—Board of Commissioners, Fifth Louisiana Levee District, contemplate having surveys made with view of constructing comprehensive drainage system; J. T. McClellan, president, and N. H. Lewis, secretary.

MISCELLANEOUS ENTERPRISES

Appalachia, Va.—Amusement.—Corinthian Company incorporated with \$10,000 capital stock; G. H. Hunt, president; George L. Bremner, secretary and treasurer.

Atlanta, Ga.—Electrical Products.—L. S. Montgomery Company, recently incorporated with capital stock of \$50,000, has organized with L. S. Montgomery as president and general manager and Paul de V. Chaudron as secretary-treasurer; will deal in electrical supplies and specialties, carrying complete stock of prominent manufacturers; offices at 826 Empire Building.

Atlanta, Ga.—Printing.—Interstate Printing Co., recently reported incorporated, conducts printing establishment in connection with Congregational Methodist Publishing House of Atlanta; contemplates erection of six-story brick building within two years; is member of "Interstate Enterprises," Edw. Young Clarke, superintendent, 12 South Pryor St.

Atlanta, Ga.—Land Improvement.—Edgewood Park Realty Co. incorporated with \$50,000 capital stock by Charles T. Page and Eugene E. Hardendorf.

Atlanta, Ga.—Taxicab, Automobiles, etc.—National Taxicab Co. incorporated with \$15,000 capital stock by H. L. Hopkins and J. H. Johnson.

Baltimore, Md.—Land Development.—Fairmount Land Corporation incorporated with Francis K. Carey, 699 Calvert Bldg., president; James Carey, Jr., vice-president; A. Morris Carey, treasurer, both of Carey Machinery & Supply Co., 119-121 East Lombard St.; John E. Carey of Carey, Bayne & Smith Company, Gunther Bldg., secretary and assistant treasurer; will take over 32 acres of estate of James Carey at Wallbrook; roadways will be opened, connecting property with Gwynns Falls parkway; plans for development prepared by Langdon & Gittings, landscape architects, Baltimore and Boston, Mass.; will erect several dwellings; S. J. Martenet & Co., 18 East Lexington St., Baltimore, engineers in charge; Ellict & Emart, 1101 Union Trust Bldg., Baltimore, will supervise construction of dwellings. (Recently mentioned.)

Baltimore, Md.—Brass, Iron, etc.—Federal Pipe Co. incorporated by Charles T. Glover, 300 Park Ave.; John P. B. Sadler and Julius Lehman, all of Baltimore.

Baltimore, Md.—Dairy.—Pikesville Dairy Co., 1501 to 1513 Argyle Ave., awarded contract to Alexander W. Brown, North Ave. near Pennsylvania Ave., Baltimore, for erection of boiler and machine room at Smith street and Wilmer alley; one story; brick; 6x40 feet; plans by Henry Adams, Calvert Bldg., Baltimore.

Birmingham, Ala.—Land Improvement.—Highland Land Co. incorporated with \$5000 capital stock; A. A. Gambill, president; W. R. Gunn, vice-president; R. H. Thach, secretary and treasurer.

Blackwell, Okla.—Grain Scale.—American Grain Scale Co. incorporated with \$30,000 capital stock by A. G. Barrett, Wm. Vickery and R. C. Brown.

Bluefield, W. Va.—Railroad-beds.—United States Railway Roadbed Co. incorporated

with \$100,000 capital stock by S. S. Coffman, W. H. Hoffman and others.

Bomar City (not a postoffice), Texas.—Dallas-Tarrant County Development Co. (offices, 409 Commerce St., Dallas, and 208 Moore Bldg., Fort Worth, Texas), recently reported incorporated, will develop Bomar City; J. A. Connor, president; J. A. Fisher, vice-president; M. F. Bomar, secretary-treasurer.

Chattanooga, Tenn.—Bottling.—Gladstone Springs Co. incorporated with \$100,000 capital stock by J. A. Patten, E. A. Wheatley, G. H. Patten and others to develop Cave Springs; will erect carbonating plant; name of springs to be changed to Gladstone Springs; J. A. Patten to be president.

Chattanooga, Tenn.—Drugs.—Rose Drug Co., 519 Chestnut St., incorporated with \$100,000 capital stock; wholesale drugs; Randolph M. Rose, president; Fowler Manning, vice-president; C. Manasse, secretary-treasurer.

Charleston, S. C.—Wireless Telephone Station—Atlantic Radio Wireless Telephone & Telegraph Co., New York, will establish wireless telephone station at Charleston; C. F. Bodley, general agent, is registered at the Charleston Hotel.

Chatham, Va.—Tobacco Prizery.—Pennsylvania Tobacco Dry Prize Co. organized; H. B. Keese, president; W. B. Shepherd, secretary; will establish tobacco prizery.

Dallas, Texas—Printing.—Standard Printing Co. incorporated with \$50,000 capital stock by R. K. Jones, J. B. Moore and A. D. Munzerheimer.

Enid, Okla.—Grain Elevator.—Grain, Broomecorn and Stock Growers' Association proposes to establish grain elevator at various shipping points.

Enid, Okla.—Automobiles.—Enid Automobile Co. incorporated with \$10,000 capital stock by R. W. Cowler, Michael Goodnature and C. V. Cassina.

Fort Smith, Ark.—Grain and Produce.—Smith Grain & Produce Co. incorporated with \$25,000 capital stock by C. N. Geren, J. Payne and A. H. Ritter.

Greenwood, Miss.—Hardware.—Henderson & Baird Hardware Co. incorporated with \$125,000 capital stock by T. H. Baird, J. E. Mann, A. Henderson and others.

Independence, Mo.—Hardware.—Martin-Parker Hardware Co. incorporated with \$7500 capital stock by Jesse L. Martin, John S. Parker and H. H. Fletcher.

Jacksonville, Fla.—Land Development.—Jacksonville Heights Improvement Co. organized and charter applied for; capital stock \$500,000; G. W. Deen to be president; G. R. Lynn, treasurer; J. H. Phillips, secretary; Charles H. Sieg, first vice-president; H. L. Stewart, second vice-president; company to develop and sell farm tracts.

Kansas City, Mo.—Vacuum Cleaning.—Hope Vacuum Cleaning Co. incorporated with \$5000 capital stock by John T. Hope, John E. Walsh and H. M. Herrod.

Kingston, Tenn.—Construction.—Southern Construction Co. incorporated with \$50,000 capital stock by W. H. Grannis, T. A. Christians, W. H. Spencer and others.

Lexington, Ky.—Steam Laundry.—Lexington Laundry Co. incorporated with \$50,000 capital stock; I. N. Williams, president; George T. Graves, vice-president; W. G. McComas, secretary; Wellington Scott, treasurer; W. G. Thomas, general manager; company combines Lexington Steam Laundry and Naven Laundry; will erect additional building and establish dry-cleaning department.

Lexington, Ky.—Printing.—Transylvania Book Co. incorporated with \$5000 capital stock by E. D. Veach, T. M. Owsley and W. R. Tracey.

Lynchburg, Va.—Amusement.—Monarch Amusement Co. incorporated with \$15,000 capital stock; J. B. Lee, president; A. A. McClure, vice-president; E. P. Cromwell, secretary and treasurer.

Lynchburg, Va.—Implements and Hardware.—Lynchburg Implement Co. incorporated with \$50,000 capital stock; E. H. Martin, president; R. G. Robertson, vice-president; G. H. Nowlin, secretary and treasurer.

McGhee, Ark.—Packet Line.—White & Arkansas River Packet Co. incorporated with \$10,000 capital stock by S. L. Howell, T. H. Huddleston, Oscar Lowler and others; to operate boats for freight and passengers on Mississippi, White and Arkansas rivers.

Memphis, Tenn.—Cemetery.—Mt. Carmel Cemetery Co. incorporated with \$60,000 capital stock by T. J. Searcy, W. J. McMichael, T. O. Fuller and others.

Mobile, Ala.—Land Improvement.—Fowl River Land & Development Co. incorporated with \$5000 capital stock; Charles G. Ollinger, president; John Craft, vice-president; Sid-

ney Lowenstein, treasurer; W. K. Linscott, general manager; B. J. Williams, secretary; will develop land for truck raising, fruit and pecan culture.

Narrows, Va.—Hardware.—Narrows Hardware Co. incorporated with \$25,000 capital stock; J. S. Hall, president, Bluefield, W. Va.; J. F. Willis, secretary and treasurer, Narrows.

Nashville, Tenn.—Contracting.—J. H. Hutchinson & Sons Co. incorporated with \$5000 capital stock by Thomas S. Hutchinson, Albert W. Hutchinson, C. H. LeSeuer and J. Washington Moore; to continue established business.

Newnan, Ga.—Farm Supplies, etc.—Woodroof Supply Co. incorporated with \$5000 capital stock by H. P. Woodroof, D. P. Woodroof and Mrs. P. L. Woodroof.

New Orleans, La.—Land Development.—J. L. Onarato and C. G. Hollifield are interested in development of Dennis Sheen tract of land; 230 acres; proposed to subdivide into building lots.

New Orleans, La.—Transportation.—Commeaux-Le Blanc Transportation Co. incorporated by Joseph N. Le Blanc, Robert J. Commeaux, Geo. L. Le Blanc and others.

New Orleans, La.—Amusement Resort.—W. H. Labb, Denver, Col., has purchased White City Amusement Park and will, it is reported, expend \$250,000 for remodeling; floor of theater will be raised and other improvements made.

New Orleans, La.—Land Improvement.—Oaklawn Land & Improvement Co. incorporated with \$125,000 capital stock; Eugene F. Buhler, president; J. A. Davis, vice-president; Joseph H. Gomilla, secretary and treasurer; to develop residential section on Bayou LaCombe; owns 700 acres and will develop.

Norfolk, Va.—Land Improvement.—Hillside Realty Corporation incorporated with \$10,000 capital stock; W. C. Cobb, president; Aaron Milhado, secretary and treasurer.

Oklahoma City, Okla.—Contracting.—Oklahoma Contracting Co. incorporated with \$10,000 capital stock by John B. Davidson, A. C. Root, both of Oklahoma City, and Michael McGovern, Chicago, Ill.

Prescott, Ark.—Land Improvement.—Arkansas Investment Co. incorporated by W. N. Bemis, H. F. Bemis, John H. Arnold and others.

Richmond, Va.—J. W. Ferguson & Sons incorporated with \$50,000 capital stock; Edgar B. Ferguson, president; M. B. Ferguson, vice-president; J. E. Ferguson, secretary and treasurer.

Savannah, Ga.—Land Improvement.—Interstate Land Co. incorporated with \$25,000 capital stock by J. W. Motte, W. W. Wilder and C. B. Parker.

Savannah, Ga.—Phosphate.—Santa Fe Phosphate Co. incorporated with \$25,000 capital stock and privilege of increasing to \$500,000 by John Ward Motte and Willis W. Wilder.

Soash (not a P. O.), Texas.—Townsite.—W. P. and Dave Soash, Waterloo, Iowa, will establish townsite at Soash, 22 miles from Big Springs.

Spencer, N. C.—Laundry.—Spencer Steam Laundry (A. W. Hicks and A. D. Smith) will establish proposed laundry; order placed for machinery costing \$3000.

Waiteville, W. Va.—Land Improvements.—Waiteville Land Co., incorporated recently, has organized with John L. Vaughan, Roanoke, Va., president; P. W. Early, Interior, Va., secretary; A. M. Crozier, Waiteville, treasurer; company is capitalized at \$50,000 and plans to lay out and develop new town of Waiteville, besides promoting development of iron ore, lumber, tan bark, agricultural and other resources of Potts Creek Valley.

Warren, Ark.—Land Improvement.—Sparks Land Co. incorporated with \$20,000 capital stock by T. W. Hollingsworth, J. F. Hays, Dave Rude and others.

Washington, D. C.—Steamboat Line.—Potomac & Chesapeake Steamboat Co. incorporated with \$500,000 capital stock; Conrad H. Symes, president, Fendall Bldg.; Hugh H. Ober, vice-president, Colorado Bldg., both of Washington, D. C.; Paul Dulaney, Bristol, Va.; will operate steamboat line on Potomac River and Chesapeake Bay.

Washington, D. C.—Wireless Telephone System.—National Electric Signaling Co., Pittsburgh, Pa., has contract for furnishing U. S. Navy Department with wireless apparatus for transmitting messages for distance of 3000 miles; two ships to be furnished with similar apparatus; tower for apparatus will be erected in Washington.

Waycross, Ga.—Crematory.—City contemplates erection of crematory; A. M. Knight, Mayor.

Westport, Station Baltimore, Md.—Brick and Clay Products.—Westport Paving Brick Co. incorporated with \$250,000 capital stock by J. Kemp Bartlett, 34 United States Fidelity & Guaranty Bldg.; Charles J. Taylor, 201-203 West Camden St.; Merville H. Carter, 2900 North Calvert St., and others, all of Baltimore.

Wilson, N. C.—Furniture.—Wilson Furniture Co. incorporated with \$8000 capital stock by J. J. Anderson, J. W. Thomas and J. W. Quinn.

MISCELLANEOUS MANUFACTURING PLANTS

Bigheart, Okla.—Oil Refinery.—Southwestern Refining Co. will increase capacity of plant; present capacity 1800 barrels monthly.

Birmingham, Ala.—Glue.—James H. Griffith, New Orleans, La., contemplates, it is reported, establishment of glue factory at Birmingham.

Birmingham, Ala.—Bakery.—Highland Bakery Co. incorporated with \$100,000 capital stock; William Fischer, president and general manager; Henry Molchaw, secretary and treasurer; offices, 20th street and Avenue F.

Birmingham, Ala.—Automobiles.—Company will be incorporated with \$250,000 capital stock, E. E. Enslen, secretary and treasurer, to manufacture six-cylinder automobiles.

Blackwell, Okla.—Cigars.—Interstate Cigar Co. incorporated with \$10,000 capital stock by S. C. Sparks, S. A. Sparks, A. Sparks and F. M. Thayer.

Bristol, Va.—Patented Novelties.—Wm. J. Johnson, Universal Spring Motor Corporation, Suffolk, Va., contemplates erecting plant in Bristol.

Campbell, Ky.—Bottling Plant.—B. J. Matthews, E. E. Evans and J. H. Shryock, all of Lexington, Ky., have incorporated company with capital stock of \$10,000 to erect bottling plant at Campbell.

Charleston, S. C.—Bagging.—Victor Bagging Co. incorporated by M. Rutledge Rivers and A. H. Lusen.

Charleston, S. C.—Silverware.—Eastern Carolina Silver Co., J. L. Coker, president, Hartsville, S. C., contemplates, it is reported, establishment of plant for manufacturing silverware in Charleston.

Chattanooga, Tenn.—Drugs.—Rose Drug Co. incorporated with \$100,000 capital stock by Randolph M. Rose, W. L. Frierson, Lewis M. Coleman and others.

Chattanooga, Tenn.—Cigars.—Consolidated Cigar Co. incorporated with \$20,000 capital stock by John S. Whigman, J. H. Ballard, Burnett Rhodes and others.

Clarksville, Tenn.—Corn Shellers.—A. H. Patch Company incorporated with \$50,000 capital stock by B. A. Patch, S. M. Patch, G. M. Patch and others; to manufacture corn shellers and grinding mills.

Dallas, Texas—Beverages.—Textonite Company incorporated with \$10,000 capital stock by L. P. Greer, T. C. Phillips and A. E. Thomas.

Danville, Va.—Safety Gate and Signals.—Fitzgerald Automatic Safety Gate & Signal Co., Inc., has increased capital stock from \$5000 to \$60,000.

Decatur, Ala.—Tannery.—American Oak Tanning Co. will, it is reported, expend \$20,000 for improvement to plant.

Durant, Okla.—Wall Plaster.—Guilford Plaster & Cement Co., Greensboro, N. C., contemplates, it is reported, establishment of plant at Durant for manufacturing patented wall plaster.

Farmville, Va.—Creamery.—Stock company organized by E. T. Bondurant, G. M. Robeson, R. B. Johns and others to build creamery to cost \$5950; contract for building and machinery placed; capacity 400 to 500 cows; plant to be in operation within 90 days.

Fort Worth, Texas—Soap, Lard, Oil Refinery, etc.—Winfield Scott will, it is reported, establish oil refinery, cottonseed-oil mill and plant for manufacturing compound lard and soap; factory to cost \$50,000 and oil mill \$100,000.

Fredericksburg, Va.—Buggy Plant.—Fredericksburg Buggy Co. incorporated with \$25,000 capital stock; J. P. Stiff, president; J. H. Biscoe, vice-president; H. C. Biscoe, secretary-treasurer.

Frederick, Md.—Bakery.—G. L. Baking Co. incorporated with \$10,000 capital stock by R. Rush Lewis, James H. Gambrill, Jr., D. Chas. Winebrenner and Oscar D. Coblenz.

Garrison, Texas—Drugs.—Garrison Drug Co. incorporated with \$75,000 capital stock by R. Garrison, Frank Goldsberry and Sam Stripling.

Georgia.—J. W. Motte and J. J. Wilder,

both of Savannah, Ga., have purchased 400-acre timber tract, and will establish turpentine farm.

Giddings, Texas—Creamery.—Giddings Creamery Co. organized with \$3000 capital stock; E. J. Neitsch, president; H. C. Joekel, secretary and treasurer.

Graham, Va.—Graham Manufacturing Co. incorporated with \$60,000 capital stock; William Mitchell, Sr., president; H. M. Mitchell, secretary and treasurer.

Greensboro, N. C.—Pipe and Boiler Covering.—Carolina Asbestos Manufacturing Co. 116 South Elm St., will double capital and plant's capacity.

Houston, Texas—Ice-cream.—Houston Ice-Cream Co. incorporated with \$20,000 capital stock by C. L. House, Turner White, P. T. House and others.

Jacksonville, Fla.—Shoes.—Duval Shoe Factory Co. incorporated with \$15,000 capital stock by Neal Finkelstein, G. Finkelstein and John W. Dodge.

Kansas City, Mo.—Creamery.—Interstate Creamery Co. incorporated with \$30,000 capital stock by J. E. Chandler, C. W. Kent and James A. Greenwood.

Kansas City, Mo.—Stock Food.—American Stock Food Co., recently reported incorporated, will manufacture stock and poultry foods; capacity one to three cars daily; machinery purchased; James H. Arnold, Sr., president; James H. Arnold, Jr., vice-president; Paul J. Arnold, treasurer; company will erect new buildings soon.

Kansas City, Mo.—Candy.—Hava Kiss Candy Specialty Co. incorporated with \$50,000 capital stock by Carl Hobson, George D. Steele and T. E. Lehman.

Kansas City, Mo.—Disinfectants.—Ozone Disinfectant Co. incorporated with \$30,000 capital stock by D. N. Hitchcock, Chas. Nelson and T. F. Callahan.

Louisville, Ky.—Gloves.—Louisville Glove Co. incorporated with \$1000 capital stock by Fred Gans, W. H. Gans and H. S. Wood.

Lynchburg, Va.—Paper Boxes.—Lynchburg Paper Box Co., 12th and Harrison Sts., Arthur T. Ewing, president, recently reported incorporated, will establish plant with daily capacity of 5000 stiff boxes; machinery purchased.

Lynchburg, Va.—Advertising Novelties.—D. T. Stanford, New York, will establish plant for manufacturing advertising novelties at Lynchburg.

Marlow, Tenn.—Powder.—Rand Powder Co., Knoxville, Tenn., W. A. Moberly, general manager, will rebuild corning mill recently burned; structure 24x32 feet; cost, including machinery, \$2250.

Milledgeville, Ga.—Mattresses.—N. C. Mauney, Eatonton, Ga., and W. G. Shannonhouse, Charlotte, N. C., will establish mattress factory in Milledgeville.

Mobile, Ala.—Electrical Equipment.—Modern Electric Appliance Co. incorporated with \$10,000 capital stock; J. J. Blacksher, president; E. E. Wager, vice-president; B. B. Chamberlain, secretary and treasurer.

Moore, Okla.—Creamery.—Farmers' Cooperative Creamery & Cheese Co. incorporated with \$3000 capital stock by P. H. Peterson, R. F. McBride, W. A. Taylor and others.

Mt. Pleasant, Tenn.—Bottling.—Mt. Pleasant Bottling Co. incorporated with \$2500 capital stock by J. E. Anderson, J. T. Anderson, J. C. Sharp and others.

Nashville, Tenn.—Chemicals.—Roman Chemical Co. incorporated with \$10,000 capital stock by R. H. Bowers, A. H. Wood, C. H. Gaines and others.

Nashville, Tenn.—Saddlery and Harness.—Montgomery-Moore Manufacturing Co. will erect factory building; brick; six stories; steam heat; sprinkler system; power elevator; cost \$50,000.

Nashville, Tenn.—Stamping.—Southern Stamping & Manufacturing Co. has increased capital stock from \$4000 to \$10,000.

Nashville, Tenn.—Shirts.—Huddleston-Sloan Shirt Co. incorporated with \$10,000 capital stock by M. Y. Sloan, R. H. Huddleston, John Early and others.

New Orleans, La.—Cans.—Becker Can Co., Ltd., 3128 South Carrollton Ave., recently reported incorporated, has purchased plant of Southern Can Co.; will improve property; proposals will be received within 30 or 60 days on wet or packers' line and other machinery; Rudolph F. Becker, president; M. C. Becker, vice-president; Albert R. Becker, secretary-treasurer; present daily capacity of plant, about 100,000 cans; capacity to be increased. (See "Machinery Wanted.")

New Orleans, La.—Candy.—Kernaghan, Correll & Parkerson have leased building and will equip to manufacture candy.

New Martinsville, W. Va.—Gloves.—F. M.

Jackson and William Koontz will establish Jakson and William Koontz will establish glove factory.

North McAlester, Okla.—Gloves, Overalls, etc.—McAlester Glove Manufacturing Co., North Main St., recently reported incorporated (under McAlester), will manufacture canvas gloves; present capacity 120 to 200 dozen daily; contemplates manufacture of overalls and jumpers; J. O. Grubbs, president; J. R. Hurley, vice-president; J. P. Burnett, general manager. (See "Machinery Wanted.")

Orange, Texas—Bakery.—Hamlin & Holland organized by A. V. Holland and others to establish bakery with daily capacity of 4000 loaves of bread.

Piedmont, Ala.—Fertilizer.—W. H. Pinson, Atlanta, Ga., is promoting organization of company to establish fertilizer mixing plant at Piedmont. (See "Cottonseed-Oil Mills.")

Raleigh, N. C.—Medicine.—Campbell-Kelly Medicine Co. incorporated with \$125,000 capital stock by T. E. Campbell, A. C. Kelly and John W. Hinsdale, Jr.

Reidsville, N. C.—Vending Machines.—Universal Vending Machine Co. recently reported incorporated (under "Foundry and Machine Plants"), will manufacture vending machines; R. J. Morrison, president and superintendent; J. P. Dillinger, vice-president, both of Cherryville, N. C.; John C. Morrison, secretary-treasurer, Reidsville.

Rocky Mount, Va.—City contemplates constructing sewer system, but as yet has taken no action; C. S. Greer, Mayor. (Recently mentioned.)

San Antonio, Texas—Pickle.—Lone Star Pickle Co. incorporated with \$3000 capital stock by A. A. Gittinger, Herman Breecher and Joseph Faas.

San Antonio, Texas—Chewing-gum.—International Chiclet Co. incorporated with \$8000 capital stock by Victor E. Fermier, J. E. Fermier, both of San Antonio, and J. H. Fermier, Mobile, Ala.

San Benito, Texas—Sugar Mill.—San Benito Sugar Co. of San Benito and 514 Commercial National Bank Bldg., Chicago, Ill., recently reported incorporated to establish sugar mill, has not yet made definite plans; Alba Heywood, president; R. E. Fletcher, vice-president; E. E. Cox, secretary; S. A. Robertson, treasurer.

Shreveport, La.—Plate and Window Glass.—Wm. E. Neal, Indianapolis, Ind., is considering Shreveport as location for plant to manufacture plate and window glass.

Statesville, N. C.—Bottling.—Statesville Coca-Cola Bottling Works organized by F. N. Snyder to establish bottling plant.

St. Louis, Mo.—Gas Plants.—Rider Gas Process Co. incorporated with \$100,000 capital stock by Charles H. Rider, John Weerts, Hiriam B. Morse and others.

Temple, Texas—Creamery.—Temple Creamery Co. incorporated with \$4700 capital stock by W. Goodrich, F. F. Downs, A. J. Jarrell and others.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

Jacksonville, Fla.—St. Johns River Terminal Co., J. B. Munson, president, Macon, Ga., contemplates construction of train shed, supply-house, master mechanic's and yardmaster's office, coal chute and trackage; construction by company's force; work on coal chute commenced.

Weatherford, Texas—Gulf, Colorado & Santa Fe Railway Co., W. E. Maxson, general superintendent, Galveston, Texas, will not construct buildings at Weatherford. (Recently incorrectly reported.)

ROAD AND STREET IMPROVEMENTS

Andrews, N. C.—Valleytown township will vote March 22 on issuance of \$25,000 of bonds for macadamizing roads; J. Q. Barker, president Highway Commission of Valleytown township.

Aniston, Ala.—Calhoun county will probably vote on issuance of \$200,000 of bonds for road improvements. Address County Commissioners.

Atlanta, Ga.—D. Nichols & Sons, Box 1043, recently noted to have received contract for paving on boulevard between Atlanta and Eastlake, and also for Druid Hills Land Co., has begun construction.

Baltimore, Md.—J. Barry Mahool, Mayor, has approved ordinance for extending and paving West Baltimore street from Garrison avenue to Old Frederick road; cost about \$100,000; work will include construction of bridge across Gwynn's Falls, which will probably be built by department of B. T. Fendall, City Engineer.

Rockville, Md.—Montgomery County Commissioners awarded contract to McCay Engineering Co., 9 East Lexington street, Baltimore, Md., at \$33,000 for road construction from Kensington to Bradley lane, Chevy Chase; about 20,000 yards grading; approximately 10,000 tons broken stone. Recently incorrectly mentioned. (See "Machinery Wanted.")

sunace of \$10,000 additional bonds for street improvement, extension of water-works and sewer system. Address The Mayor.

Buena Vista, Va.—City will construct three-quarters of a mile of granolithic sidewalks. Address The Mayor.

Canton, N. C.—City contemplates soon beginning street improvements, for which \$25,000 of bonds have been issued. Address The Mayor.

Charlotte, Tenn.—Dickson County Turnpike Co. incorporated with \$20,000 capital stock by J. R. Nehlett, W. B. Leech, J. J. Taylor and others.

Clarksville, Ga.—City will vote March 25 on issuance of \$800 of bonds for street improvements. Address The Mayor.

Cookeville, Tenn.—Putnam county will vote March 27 on issuance of \$150,000 of bonds for road construction. Address County Commissioners.

Dallas, Texas.—Municipal Commissioners decided to pave East Elm and Harwood streets probably with bitulithic. J. M. Preson, City Engineer.

Darlington, S. C.—City will vote on issuance of bonds to pave sidewalks and streets. Address The Mayor.

El Paso, Texas.—Petrolithic & Construction Co. increased capital stock from \$75,000 to \$100,000.

Fayetteville, N. C.—City will pave cross streets of business section with stone for distance of 30 feet from main thoroughfare. Address The Mayor.

Gainesville, Ga.—City Council passed ordinance for paving parts of five business streets in lengths of five blocks each; surveying begun; other street work, tile sidewalks and curbing planned; R. E. Strickland, chairman street committee. (See "Machinery Wanted.")

Kansas City, Mo.—City will award contracts March 19 for construction of about 145,380 square feet of granitoid sidewalks on Lawn, Madison, Michigan, Kensington and other streets; James L. Darnell, City Engineer.

Lafayette, Ala.—Chambers county will grade West Point public road between Lafayette and Lanett, Ala.; bids to be opened April 5; A. J. Driver, Jr., chairman Court of County Commissioners. (See "Machinery Wanted.")

Little Rock, Ark.—Commissioners of Improvement District No. 141 (Louisiana street from 2d to 9th and cross streets between Main and Center) will receive bids until April 1 for paving with sheet asphalt on concrete base streets within district; about 20,000 yards of paving; estimated cost, \$65,000; E. A. Kingsley, engineer for district. (See "Machinery Wanted.")

Lokhart, Texas.—Caldwell County Commissioners' Court ordered election to be held April 24 for voting on issuance of \$50,000 of bonds for road construction in Precinct No. 1. (Recently mentioned.)

Louisville, Ky.—Board of Public Works awarded contracts aggregating \$20,000 for sidewalk paving; Staebler & McFarland-Campbell, Grayson, 26th, Duncan, Cawthorn, Walnut, Marshall and 15th streets and Story avenue; L. R. Figg—15th, Duncan, Madison and Oak streets.

Martin, Tenn.—City will vote April 6 on issuance of \$30,000 bonds for graveling streets. Address The Mayor.

Memphis, Tenn.—J. H. Weatherford, City Engineer, has prepared plan of street paving to cost about \$2,000,000 and require about three years to complete; will submit plan to Council.

Moultrie, Ga.—City will vote April 15 on issuance of \$500 of bonds for opening and improving streets. Address The Mayor.

Newbern, N. C.—City awarded contract to Bowe & Page, Charleston, S. C., at \$1.54 per square foot for paving about 10 blocks with Carlyle vitrified brick. (Recently mentioned.)

Newport, Tenn.—Cocke County Court authorized \$20,000 bond issue for road improvements. Address County Commissioners.

Oxford, N. C.—County Commissioners contemplate building roads in Granville county: \$100,000 to be available. Address Clerk of Board.

Richmond, Va.—City will pave with asphalt blocks roadbed of 34th street from Old Corporation line to Oakwood avenue; bids opened March 16; Charles E. Boiling, City Engineer.

Rockville, Md.—Montgomery County Commissioners awarded contract to McCay Engineering Co., 9 East Lexington street, Baltimore, Md., at \$33,000 for road construction from Kensington to Bradley lane, Chevy Chase; about 20,000 yards grading; approximately 10,000 tons broken stone. Recently incorrectly mentioned. (See "Machinery Wanted.")

Ruston, La.—City will construct five additional miles of concrete sidewalks. Address The Mayor.

Shreveport, La.—City awarded contract to H. M. Severance of Shreveport for laying concrete sidewalks and curbing.

Sparta, Tenn.—White county will vote March 18 on issuance of \$50,000 road bonds. Address County Commissioners.

St. Louis, Mo.—Board of Public Improvements awarded contracts for street and alley improvements, aggregating \$102,000, as follows: G. Eyermann & Bro.—Virginia avenue, \$5672.18; Daggett avenue, \$14,180.95; Cadet avenue, \$6334.77; Ohio avenue, \$6388.88; Michigan avenue, \$12,285.13; Minnesota avenue, \$10,798.25; Hartford street, \$4157.62; Dunnica avenue, \$4369.45; Alberta street, \$7560.04; James T. McMahon—Knapp street, \$6303.14; Gilsonite Construction Co.—North Market street, \$6354.47; Skrainka Construction Co.—Sacramento avenue, \$6917.18, and Leduc street, \$12,319.86; all contractors of St. Louis.

Temple, Texas.—City has voted \$50,000 of bonds for paving. Address The Mayor.

Union Springs, Ala.—Bullock county has voted \$100,000 of bonds for road construction. Address County Commissioners. (Recently mentioned.)

Valdosta, Ga.—City will vote April 14 on issuance of \$30,000 of bonds for sidewalk paving; proposed to lay 10 or 15 miles of sidewalks. Address The Mayor. (Recently mentioned.)

Winston-Salem, N. C.—City will pave 4th street about three-quarters of mile with bituminous. Address The Mayor.

SEWER CONSTRUCTION

Baltimore, Md.—City will open bids April 7 for building sanitary sewers. Contracts Nos. 38 and 39; Contract No. 38 will require 16,200 linear feet 6-inch house connections, 29,500 linear feet 8-inch pipe sewer and 2300 linear feet 10 to 15-inch pipe sewer; Contract No. 39, 13,500 linear feet 6-inch house connections, 19,600 linear feet 8-inch pipe sewer and 4200 linear feet 10 to 20-inch pipe sewer; Calvin W. Hendrick, chief engineer Sewerage Commission, American Bldg. (See "Machinery Wanted.")

Beaumont, Texas.—City will vote on issuance of from \$30,000 to \$50,000 of bonds for extension of sewer system; C. L. Schernell, City Engineer, and P. A. Dowlen, chairman of Sewer Committee, are now preparing plans; probably reinforced concrete will be used.

Bennettsville, S. C.—City contemplates issuance of \$10,000 additional bonds for extension of sewer system, water-works and street improvement. Address The Mayor.

Capitol Hill, Okla.—City has issued \$15,000 bonds for extension of sewer system; Oklahoma Engineering Co., Oklahoma City, Okla., to supervise construction.

Columbia, S. C.—City will construct about 3753 feet of pipe sewers from 8 to 12 inches in Elmwood Park extension of city; bids to be opened March 22; A. W. Edens, City Engineer. (See "Machinery Wanted.")

Columbus, Miss.—City will construct secondary sewer line; about 1700 linear feet eight-inch pipe, three manholes, one flush tank; material furnished by city; C. L. Wood, Columbus, engineer in charge.

Dublin, Ga.—Syndicate Land Co., home office, Waycross, Ga., Shepherd Bradley Watson, manager, will award contract for sewer work to cost \$2500. (See "Machinery, etc., Wanted.")

Fort Washington, Md.—Bids will be opened March 30 for extension of sewer and water mains at Fort Washington; H. L. Pettus, constructing quartermaster, Washington, Takoma Substation, D. C. (See "Machinery Wanted.")

Gaffney, S. C.—City will vote March 31 (not March 19, as lately stated) on issuance of \$15,000 of bonds for construction of sewer system and extension of water-works and electric-light plant. W. H. Ross, Mayor.

Hill City, Tenn.—Company incorporated with \$5000 capital stock by W. M. Bogart, C. O. Lindsay, T. W. Stanfield and others to build eight-inch tile-pipe sewer on Forest avenue; contract awarded to Noll Construction Co., 8 East 6th St., at \$4000 to construct 1100 feet of sewer, and arrangements practically completed for 2500 feet extension at cost of \$1250.

Hubbard, Texas.—City will construct sewer system to cost about \$10,000; William M. Elliott, engineer, Corsicana, Texas; H. C. Bishop, City Secretary. (See "Machinery Wanted.")

Lake Charles, La.—City is considering construction of sewers. Address The Mayor.

Lynchburg, Va.—City Council concurred in

resolution appropriating \$10,000 for sewer construction in West End; H. L. Shaner, City Engineer. (Recently mentioned.)

Lynchburg, Va.—William King, Jr., chairman of committee on streets and sewers, concurred in resolution authorizing construction of sewer system in Watering Branch vicinity at cost of about \$10,000.

Madisonville, Ky.—City will construct system of sanitary sewers; James L. Brown, City Clerk.

Moultrie, Ga.—City will vote April 15 on issuance of \$20,000 of bonds for completing sewerage system. H. S. Jaudon, Savannah, Ga., is engineer in charge, and has prepared plans. (Further facts recently mentioned.)

Richmond, Va.—Charles E. Bolling, City Engineer, and Assistant City Engineer Bullock submitted report recommending issuance of \$1,076,000 to supply water mains and sewers to entire old city and also to every part of annexed territory; this report was adopted by subcommittee of Committee on Streets and recommended to full committee; estimated cost for water mains is \$132,212.50; for trunk sewers for old city and new territory, \$620,133; lateral branches or service sewers, \$242,901; house connections, \$80,744; making total for sewers of \$93,778. (Recently mentioned.)

Ryan, Okla.—City will vote on issuance of \$9,000 of bonds for construction of water-works, sewer system and electric-light plant. Address The Mayor.

Salem, Va.—City awarded contract to R. H. Carpenter of Salem for sewer construction. C. H. Kester, chairman sewer committee.

South Jacksonville, Fla.—City contemplates voting on issuance of \$50,000 of bonds for construction of sewer and water systems. Address The Mayor.

Valdosta, Ga.—City will vote April 14 on issuance of \$50,000 of bonds for extending sanitary sewers. Address The Mayor. (Recently mentioned.)

Winston-Salem, N. C.—City will pave 4th street about three-quarters of mile with bituminous. Address The Mayor.

TELEPHONE SYSTEMS

Fletcher, Okla.—Fletcher Telephone Co. incorporated with \$10,000 capital stock by R. C. Stout, W. E. Nix and J. L. Peden.

Kansas, Okla.—Delaware Central Telephone Co. incorporated by D. A. Smith, W. J. Holbrook and J. R. Terry.

Livingston, Va.—Central Telephone Co. incorporated with \$5000 capital stock; F. M. Horsey, president; J. C. Clarkson, vice-president, and E. Carter, secretary.

New Liberty, Ky.—Ragland Telephone Co. incorporated with M. B. Tapp, president; W. H. Cunningham, vice-president; T. E. Martin, secretary and treasurer.

Port Arthur, Texas.—South Texas Telephone Co. will install new telephone system in Port Arthur to replace present system; will erect new building; new phones will eliminate central energy phones; two 800-wire cables will be stretched to minimize overhead wires.

TEXTILE MILLS

Abilene, Texas.—Abilene 25,000 Club negotiating with Massachusetts manufacturers relative to building cotton mill.

Anderson, S. C.—Lawns.—Gluck Mills will add 2000 spindles; now operating 32,000 ring spindles and 672 narrow looms; R. E. Ligon, president.

Anderson, S. C.—Lawns, etc.—Gluck Mills awarded contract for 2000 spindles, additional to 32,000 now in position; also installing steam turbine to operate clothroom and light village.

Austin, Texas—Hosiery.—Z. T. Fulmore, P. O. Box 233, has machinery for hosiery knitting mill lately mentioned; he suggests organization of company to install and operate the machinery.

Ball Ground, Ga.—Indigo Denims, etc.—Ball Ground Cotton Mills, recently mentioned as reorganized, etc., plans to build main structure two stories high, 75x250 feet, with dormer roof, power plant, cotton warehouses, commissary, 60 operatives' cottages, etc.; contemplates installing 10,300 spindles and 350 looms to manufacture indigo denims, tickings, plaids, etc.; Frederick A. Abbott, president.

Bessemer City, N. C.—Cotton Yarns.—Huss Manufacturing Co. incorporated with capital stock of \$100,000 by C. J. Huss, John J. Ormand, R. F. Coble and others; succeeds C. J. Huss & Co., operating 48 damask looms; will build 50x130-foot addition and install spindles. Mr. Huss will probably be general manager.

Claxton, Ga.—W. F. Freeman is interested in plan to build cotton mill.

Concord, N. C.—Locke Cotton Mills Co. awarded contract to R. L. McAllister, Mt.

Pleasant, N. C., and Ed M. Misenheimer, Concord, for construction of building to replace Odell Mill No. 4, previously burned; structure to be two stories high, 100x400 feet, and reported to be equipped with 50,000 spindles and accompanying machinery.

Corinth, Miss.—Thomas Sullivan, representing others, is negotiating with Commercial Club relative to forming company to build \$1,000,000 cotton mill.

Demopolis, Ala.—Cotton Yarns.—Elmore Manufacturing Co. organized with capital stock of \$50,000 by B. F. Elmore, J. W. Sanders, W. C. Harrison, Jr., and Bessie C. Minge—reorganization of Bessie Minge Manufacturing Co., with 4000 mule spindles for waste yarns.

Gaffney, S. C.—Sheeting, etc.—Gaffney Manufacturing Co. is not adding spindles as recently reported; has removed 13,000 spindles that had been idle to another building and will operate them within 60 days.

Gaffney, S. C.—Chain Warps, etc.—Globe Manufacturing Co. will hold meeting on April 5 to vote on increasing capital stock from \$50,000 to \$200,000; now operating 4000 ring spindles.

Lagrange, Ga.—Cotton Duck.—Unity Cotton Mills, Fuller E. Callaway, treasurer, awarded contract to John F. Grandy & Son of Greenville, S. C., for construction of buildings for No. 2 mill; including main structure, two stories high, 132x29 feet; will install 10,000 spindles, etc.; will use electric-power; about 500 horse-power. (Mentioned last month.)

Lynchburg, Va.—Hosiery.—Lynchburg Hosiery Mills incorporated with capital stock of \$50,000 to continue established plant; J. G. Burton, president and manager; C. G. Burton, secretary-treasurer; present equipment, 105 knitting machines, and will add 50.

Macclellan, Fla.—Silk.—Florida-American Silk Farm incorporated with capital stock of \$50,000 by V. G. Osglan, C. M. Griffing, Tate Powell and others; to cultivate silk-worms, spin silk, etc.

Manchester, Ga.—Cotton Cloth.—Manchester Cotton Mills, Fuller E. Callaway, president, Lagrange, Ga., awarded contract to Pike Bros. of Lagrange for construction of buildings; including main structure, three stories high, 100x450 feet; will install 20,000 spindles and 500 looms; will operate by 750 horse-power. (Mentioned last month.)

Wilson, N. C.—Knit Underwear.—W. L. Cantwell proposes organizing \$30,000 company to build underwear knitting mill lately mentioned. (See "Machinery Wanted.")

WATER-WORKS

Anderson, S. C.—Gluck Mills, R. E. Ligon, president, contemplates constructing water-works.

Bennettsville, S. C.—City is considering issuance of \$10,000 bonds for extension of water-works and sewer system and street improvement. Address The Mayor.

Brandon, Miss.—Brandon Water-Works Co. incorporated with \$10,000 capital stock by Robert Burns, A. J. McLaurin, Jr., and L. S. May.

Canton, N. C.—City contemplates soon beginning construction of water-works, for which \$25,000 of bonds have been issued. Address The Mayor.

Capitol Hill, Okla.—City has engaged Oklahoma Engineering Co., Oklahoma City, Okla., to supervise construction of water-works; \$35,000 bonds issued.

Chandler, Okla.—City has voted \$25,000 of bonds for water-works. Address The Mayor.

Eufaula, Ala.—J. B. McCrary & Co., Atlanta, Ga., are preparing plans to be submitted to Water Committee for construction of settling basin recently mentioned; appropriation, about \$2000.

Foliansbee, W. Va.—Foliansbee Water & Light Co. incorporated with \$25,000 capital stock by Thomas J. Mahan, Frank B. Mahan, C. B. Crawford and others.

Fordyce, Ark.—Fordyce Light & Water Co. has franchise to construct water-works; estimated cost \$35,000.

Fort Washington, Md.—Bids will be opened March 30 for extension of water and sewer mains at Fort Washington; H. L. Pettus, constructing quartermaster, Washington, Takoma Substation, D. C. (See "Machinery Wanted.")

Gaffney, S. C.—City will vote March 31 on issuance of \$125,000 bonds for extension of water-works and electric-light systems and construction of sewer system. W. H. Ross, Mayor. (Date incorrect in recent item.)

Gallatin, Mo.—City has voted \$8000 of bonds for water-works extension. Address The Mayor.

Indianola, Miss.—City will vote on issuance of \$10,000 bonds for constructing tank and water system. Address The Mayor.

Lindsay, Okla.—City will construct water-works; bids for machinery to be opened March 31; O'Neill Engineering Co., Dallas, Texas, in charge. (See "Machinery Wanted.")

Lynchburg, Va.—W. V. Wilson, Jr., chairman of committee on water, has concurred in resolution providing for extension of water main in West Lynchburg to Virginia Christian College; cost \$3700.

Lynchburg, Va.—Thomas F. Ryan of New York will erect two reinforced concrete reservoirs, one to contain 50,000 gallons and other 200,000 gallons; plans designed by J. M. B. Lewis of Lynchburg, who will have charge of work; cost about \$20,000.

Madisonville, Ky.—City will sell water-works franchise June 1; population 7000; James L. Brown, City Clerk. (Recently mentioned. See "Machinery Wanted.")

Markham, Texas.—Markham Business League (recently noted) will install system of fire protection; \$5000 available; artesian well, tank, tower, about 1600 feet pipe, hose and reel cart; no sealed bids; Geo. R. Burke, secretary. (See "Machinery Wanted.")

Memphis, Tenn.—City has sold \$250,000 bond issue to be used in extending water mains into new territory. Address The Mayor.

Mission Ridge, P. O. Chattanooga, Tenn.—Mission Ridge will probably vote about March 25 on issuance of \$30,000 of bonds to construct proposed system of water-works. J. H. Allison, R. P. Woodward and H. F. Holmes are commissioners in charge.

Moultrie, Ga.—City will vote April 15 on issuance of \$25,000 of bonds for completion of water-works; H. S. Jaudon, engineer, Savannah, Ga., prepared plans. (Further facts recently mentioned.)

Parsons, W. Va.—City opened bids March 18 for water-works construction; work will include double-section reservoir, same to be reinforced; pumphouse and intake; furnishing labor and tools for laying about 22,000 feet of water pipe and setting valves and fire hydrants; city will furnish all pipe to be permanently used, valves and fire hydrants; Penniman & Fairley, 411 Marine Bank Bldg., Baltimore, Md., are consulting engineers; H. L. Bennett, Mayor. (Recently mentioned.)

Prague, Okla.—Bids will be opened March 23 for drilling and casing well about 450 feet deep; Michel-Cooke Engineering & Construction Co., Joplin, Mo., supervising engineer; F. M. Newhouse, Clerk. (See "Machinery Wan.ed.")

Prague, Okla.—City will open bids March 23 for furnishing material for construction of water-works and electric-light plant. F. M. Newhouse, town clerk; Michel-Cooke Engineering & Construction Co., Joplin, Mo. (See "Machinery Wanted.")

Pulaski, Va.—City will install gravity water system; \$40,000 of bonds issued; J. W. Miller, chairman Finance Committee.

Richmond, Va.—Subcommittee of Committee on Streets recommended issuance of \$1,076,000 of bonds to extend water and sewer mains; estimated cost for water mains, \$132,212.50; Charles E. Bolling, City Engineer. (Recently mentioned. See "Sewer Construction.")

Ripley, Tenn.—Ripley Light, Water & Ice Co. increased capital stock to \$15,000 and will undertake improvements.

Rocky Mount, Va.—City contemplates constructing water-works, but has not decided plans; C. S. Greer, Mayor. (Recently mentioned.)

Rotan, Texas.—Water-works recently noted to be erected by Texas Central Railroad Co., Chas. Hamilton, vice-president and general manager, are temporary for fire protection; contracts let.

Ryan, Okla.—City will vote on issuance of \$69,000 of bonds for construction of water-works, sewer system and electric-light plant. Address The Mayor.

South Jacksonville, Fla.—City contemplates voting on issuance of \$50,000 of bonds for construction of water and sewer systems. Address The Mayor.

Stigler, Okla.—Home Comfort Water-Works incorporated by R. E. Rogers, W. H. Brown, A. L. Beckett and J. F. Lawrence.

Tulsa, Okla.—City awarded contract to Plati Iron Works, Dayton, Ohio, at \$14,500, to furnish and install 4,000,000-gallon pump for water-works. (Recently mentioned.)

Valdosta, Ga.—City will vote April 14 on issuance of \$30,000 of bonds for enlarging reservoir at water-works, enlarging mains in business center, extending mains in new territory and increasing number of electric lights. Address The Mayor. (Recently mentioned.)

Walkersville, Md.—Walkersville Water Co. incorporated with \$20,000 capital stock by Brook I. Jamison, Lincoln G. Dineerman, John D. Nicodemus, Jacob L. Crum and others.

Watonga, Okla.—City has voted \$1200 of bonds for water-works improvement. Address The Mayor.

Wichita Falls, Texas.—Wichita Falls Water & Light Co. increased capital stock from \$75,000 to \$100,000.

Winston-Salem, N. C.—Water and Light Committee has been authorized to secure plans and purchase 10-inch pipe sufficient to connect pumping station with water mains by way of Columbia Heights. Address The Mayor.

Wynnewood, Okla.—City has voted \$14,000 of bonds for water-works and lighting plant. Address The Mayor.

WOODWORKING PLANTS

Baltimore, Md.—Wood Building Material, Sagax Wood Co., Frisby St. and Belt Line Railroad, J. Henry Miller, president, contemplates establishment of larger plant, to cost \$50,000; manufactures fireproof building material, doors, trimmings, flooring, etc.

Bristol, Va.-Tenn.—General Woodworking. P. E. Jones has purchased, at \$12,750, woodworking plant of Koresian Cult.

Camden, Ark.—Chairs.—J. C. Ong, Little Rock, Ark., will establish chair factory in Camden.

Corbin, P. O. Denham Springs, La.—Spokes, Handles, etc.—Gardner-Wood Company, Eli S. Moorman, president, main office, 31 Nassau St., New York, has begun construction of proposed plant for coloring (by patent process of inoculation) growing trees; wood of trees can be made every color but pure white; plant will be 278x40 feet; equipment to consist of spoke lathes, handle lathes, circular saws and band mill; will manufacture spokes, handles, flooring, wood fixtures of buggies and probably cars; capacity, 20,000 handles daily. (Previously noted.)

Louisville, Ky.—Furniture.—Rex Furniture Co. incorporated with \$15,000 capital stock by L. Oberdorfer, S. Oberdorfer and S. Strauss.

Naples, Texas.—Sullivan-Sanford Lumber Co. will build addition for manufacturing dimension lumber and hardwood flooring; has begun construction.

Paducah, Ky.—Crates and Baskets.—Federal Crate & Basket Co. is name of company recently noted organized by Melbourne J. Parkhurst, 811 Mallery Bldg., New Haven, Conn., to take over plant of Mergenthaler-Horton Basket Co.; will manufacture baskets and crates; contemplate alterations and improvements.

Tabor, N. C.—Crates, Doors, Blinds, etc.—Tabor Lumber & Crate Co., recently noted incorporated by F. A. Tucker and others, will establish plant to manufacture crates, doors and blinds, flooring and siding, columns, molding, etc.; will erect \$2000 building of ordinary construction, size 50x150 feet; machinery to cost \$5000; officers not elected. (See "Machinery Wanted.")

Troupe, Texas—Boxes.—Troupe Box & Lumber Co. incorporated with \$5000 capital stock by F. E. McKay, J. H. Sharp, M. M. Joyner and others.

BURNED

Aiken, S. C.—Palmetto Farms ginney; loss \$3000.

Arlington, Texas.—J. D. Cooper's building, loss \$7000; George Lampe's two buildings, loss \$12,000.

Cobb City, Ala.—Kilm shed at Cobb City, owned by Anniston Lime & Stone Co., Anniston, Ala.

Deland, Fla.—Hill Drug Co.'s store building; Fenwick House; Sperry & Co.'s store building; Tucker & Brewster's building; total loss about \$25,000.

Dublin, Texas.—McCormick & Russell's merchandise store; loss about \$10,000.

El Reno, Okla.—El Reno Foundry Co.'s plant; loss about \$3000.

Frankfort, Ky.—O. F. C. Distillery Co.'s slop drier; loss \$10,000.

Georgetown, Texas.—Bedford Lumber Co.'s main building, buggy house, implement-house, lumber sheds and planing mill; loss about \$90,000.

Hancock, Md.—R. F. Dillon's stave mill, operated by J. Frank Field; loss \$3000.

Hobart, Okla.—Goodwin-Linzee Elevator, owned by Charles W. Goodwin, Clinton, Okla.; loss about \$8000.

Lafourche Crossing, La.—Lalande & Toup's sawmill; loss \$3000; James Breaux's residence.

Louisville, Ky.—Coliseum Amusement Co.'s skating rink and amusement hall; loss \$71,000; Charles T. Truehart, president.

Lufkin, Texas.—Lufkin Land & Lumber Co.'s commissary; loss \$1000.

Marlin, Texas.—G. B. Lenoir's cotton gin

Marlow, Tenn.—Corning mill of Rand Power Co. of Tennessee; main office, Knoxville, Tenn.

McKinnon, Ga.—McKinnon Bros.' shingle mill; loss \$3000.

Princess Anne, Md.—J. N. Millen's residence; loss \$4000.

Shreveport, La.—Caney Oil Co.'s warehouse, office building and three tanks.

Spartanburg, S. C.—Cleveland Building, owned by John B. and Jesse Cleveland; loss \$30,000.

Stephens, Ark.—A. Foster's drykiln.

Texarkana, Ark.—John T. Smith's residence; loss \$1000.

DAMAGED BY EXPLOSION.

Washington, D. C.—Georgetown Gas Light Co.'s plant, at 26th and G streets N. W.; loss \$10,000.

DAMAGED BY STORM.

Brinkley, Ark.—Arlington Hotel, Brinkley Hotel, Southern Hotel, Kelley Hotel, Bank of Brinkley.

Cuthbert, Ga.—J. E. Martin & Son's store building, loss about \$12,000; McPherson & Co.'s store building, loss \$10,000; John H. Shattell & Co.'s furniture store, loss \$6000; Cuthbert Grocery Co.'s store, loss \$12,000; W. H. Moy's building, loss \$6000; T. O. Boss' dwelling, loss \$6000; Central of Georgia Railway's buildings, C. K. Lawrence, chief engineer, Savannah, Ga., loss \$15,000.

Malvern, Ark.—Methodist Church, loss \$6000; Baptist Church damaged. Address the pastor in charge of each congregation.

BUILDING NOTES

APARTMENT-HOUSES

Alexandria, Va.—Cameron Apartment Co. incorporated to remodel Lee School building into apartment-house; A. S. Doniphon, president; M. D. Morrill, vice-president; C. C. Leadbeater, secretary.

Atlanta, Ga.—Jonas Straus has had plans prepared by A. Ten Eyck Brown, 71 North Forsyth St., Atlanta, for apartment-house; three stories; brick veneer; contain six apartments; cost about \$17,000.

Atlanta, Ga.—E. G. Van Dyke has had plans prepared by A. Ten Eyck Brown, 71 North Forsyth St., Atlanta, for apartment-house; four stores on ground floor and four apartments above; cost about \$10,000.

Atlanta, Ga.—E. R. Black, Chas. H. Black and Austell Thornton had plans prepared by C. E. Frazer, Atlanta, for bachelor apartment-house recently mentioned; stores on first floor; three stories; pressed brick; ordinary construction; heating, lighting, etc., not decided; cost \$20,000.

Charlotte, N. C.—J. Arthur Henderson will erect four apartment-houses; contain 24 rooms.

El Reno, Okla.—A. C. Kreipke will erect apartment-house; details not decided; probably pressed brick and stone; eight apartments with private baths; steam heating; electric and gas lighting.

Harrisonburg, Va.—W. P. and O. M. Roudabush will erect store; three stories and basement; first floor will contain store; second floor will contain apartments of five rooms each.

Kansas City, Mo.—T. C. Mitchell will erect apartment-house; four stories; 150x40 feet; 24 apartments; estimated cost \$60,000.

Louisville, Ky.—Charles T. Truehart, president Coliseum Amusement Co., contemplates purchasing site of burned Coliseum and erecting apartment-house.

Louisville, Ky.—Mrs. M. A. Smith contemplates erecting three-story apartment-house on site 60x234 feet; cost about \$14,000.

Nashville, Tenn.—J. W. Blair's apartment-house, contract recently reported awarded to local contractor, will be 130x60 feet; three stories; two courts in front; fireproof; floors of reinforced concrete, with polished oak flooring on top; roof of reinforced concrete; each hall to have staircase, with tiled floor and marble base; all kitchen floors to have sanitary cement finish; seven apartments on each floor; 100 rooms in entire building; universal kitchen and dining-room; steam heat; cost about \$35,000; plans by Thompson, Amus & Norton, Nashville.

Enim, Okla.—O. J. Fleming, C. E. Gannon and Glenn Walters are having plans prepared for office building; six stories; 75x150 feet; reinforced concrete; fireproof; brick with stone trimmings.

Fredericksburg, Va.—Alvin T. Embrey will erect office building; two stories; 32 rooms.

Hagerstown, Md.—First National Bank awarded contract to S. Lewis Lamkin of Hagerstown for erection of six-story bank

Norfolk, Va.—East & Hobbs, contractors, will erect apartment-house to cost \$12,000.

San Antonio, Texas.—L. W. Johnson, Oklahoma City, Okla., has had plans prepared by F. B. Gaenslen, San Antonio, for apartment-house; 85x68 feet; court in center; brick with stone trimmings; 30-foot colonnade gallery and porch; contain four suites of seven rooms, with bath; hardwood finish; marble wainscoting in halls; tiled bathrooms; closets in bedrooms to have full plate-glass mirrors; hot-water heating system; estimated cost \$26,000.

St. Louis, Mo.—U. P. Epstein will erect three-story apartment-house to cost about \$25,000.

St. Louis, Mo.—Catherine Investment Co. will erect three two-story apartment-houses to cost about \$13,500. (Recently mentioned.)

St. Louis, Mo.—F. A. Banister will erect six apartment-houses; three stories; six apartments in each.

St. Louis, Mo.—Holbrook-Blackwelder Real Estate Trust Co. will erect apartment-house—the Savoy; eight stories; fireproof; steel construction; 28 apartments of six, seven and nine rooms; two bathrooms with each apartment; two passenger and two freight elevators; refrigerator system; tile bathrooms; buffet and beam ceiling in dining-rooms; steam heat; laundry in basement; top floor exclusively for storeroom; cost \$500,000; plans by H. F. Roaill of St. Louis.

Tampa, Fla.—A. L. Shaw will erect two-story apartment-house to cost \$4000; plans by Shaw & Jay of Tampa.

Washington, D. C.—Franklin T. Sanner, vice-president National City Bank, 1406 G St. N. W., will erect apartment-house; will probably contain 15 to 20 apartments; site 75x150 feet.

BANK AND OFFICE BUILDINGS

Asheville, N. C.—A. H. Carrier will erect office building; reinforced concrete; two stories; 60x80 feet.

Asheville, N. C.—Frank Loughran, proprietor of Swannanoa Hotel, will erect addition; fireproof; three stores on ground floor, and convention hall, 50x80 feet, above; supported by steel girders.

Atlanta, Ga.—W. Woods White contemplates erecting banking and insurance building.

Augusta, Ga.—Union Savings Bank awarded contract to A. K. Rowland of Augusta for remodeling library building for banking purposes.

Austin, Texas.—Dr. E. P. Wilmot, president Austin National Bank, purchased site and building adjoining Austin National Bank and will, it is reported, convert both structures into office building, probably six stories high.

Birmingham, Ala.—W. C. Richards, Columbus, Miss., has plans prepared by W. A. Rayfield & Co., Mason Bldg., Birmingham, for office and store building; semi-fireproof construction; electric lighting; steam heat.

Baltimore, Md.—Eutaw Savings Bank, Wm. H. Hayden, president, Fayette and Eutaw Sts., has selected plans by Baldwin & Pennington, 330 North Charles St., Baltimore, for enlargement and remodeling of bank building; improvements will consist of addition of 60 feet on west side and remodeling of interior; west wall will be taken out and whole structure converted into virtually one banking-room, 60 feet wide, 135 feet long and 57 feet high; addition to be of brownstone; will install new vaults, new lighting and heating system, counters and partitions; interior work to be of marble and bronze; expenditure about \$300,000. (Previously mentioned.)

Charleston, S. C.—People's Building & Investment Co. will erect bank and office building; eight stories; steel frame; first floor to be occupied by People's National Bank and upper floors to be used for offices; cost about \$300,000.

El Reno, Okla.—Conservative Investment Co., C. B. Anderson, president, Crete, Neb., will soon award contract for erection of proposed office building at El Reno; two stories; pressed brick with stone trimmings; front to be of white-enamel-finished brick; fireproof vault in rear; temporary offices in rear of First National Bank, El Reno.

Alvin, Texas.—Methodist Episcopal Church awarded contract for erection of proposed edifice. Address The Pastor, Methodist Episcopal Congregation.

Birmingham, Ala.—Sixteenth Street Baptist Church awarded contract to Windham Bros. Construction Co., 32d St. and Avenue E, Birmingham, for erection of proposed stone and brick edifice; 70x116 feet; pastorum, 24x70 feet; electric lights; steam heat; cost \$43,000; plans by W. A. Rayfield & Co., Mason Bldg., Birmingham.

building to cost about \$60,000. (Previously mentioned.)

Houston, Texas.—S. F. Carter has had plans prepared by Sanguinet & Staats of Houston for office building; 16 stories; 102x103 feet; steel frame; fireproof; marble wainscoting and tile floors in corridors; elevator service; at least two elevators will be used as express elevators and will have speed of 600 feet per minute; first floor for mercantile purposes, but later may be converted into banking room; artesian well; power plant in basement, furnishing power, heat, light and refrigerated water for entire building; special fire protection to be provided by several hydrants, with hose attached, on each floor, supplied with water from 20,000-gallon tank located on top of building; roof garden.

Houston, Texas.—South Texas National Bank awarded contract to James Stewart & Co., St. Louis, Mo.; New Orleans, La., and other cities, for erection of bank building; three stories; 43x125 feet; marble front; interior of marble and Mexican onyx; four monolithic pillars, 30 feet high, to support front; estimated cost, exclusive of vault and furnishings, \$93,000; contract for vault awarded Herring-Hall-Marvin Safe Co., Cincinnati, Ohio; plans by C. D. Hill, Dallas, Texas. (Previously mentioned.)

Lenoir City, Tenn.—First National Bank will erect bank building; 75x25 feet; two stories; hot-air heating; electric lights; water.

Louisville, Ky.—Mengel Box Co. is having plans prepared for office building; 62x156 feet; one story; sawtooth roof; heating and chilled-air appliances; cost \$20,000.

McMinnville, Tenn.—State Bank, J. T. Darren, president, will erect bank building.

New Orleans, La.—Metropolitan Bank, A. G. Ricks, president, will have plans prepared by Diboll, Owen & Goldstein of New Orleans for proposed bank building; 60x150 feet; fireproof; low-pressure steam heat; electric lighting; cost \$200,000; date of opening bids not decided.

Oklahoma City, Okla.—Bass & Harbour awarded contract for erection of office building; eight stories and basement; 40x140 feet; fireproof; white tile-brick front, trimmed with green shadings and cornice work; 200 rooms; each suite to have individual lavatory and stationary washstands; halls and floors to be of marble and white tiling; two passenger elevators; steam-heating and ventilating equipments; electric lighting; cost about \$150,000; plans by Layton, Smith & Hawk of Oklahoma City. (Previously mentioned.)

Oklahoma City, Okla.—Gosche Thompson awarded contract to erect five-story office building to cost about \$75,000.

Oklahoma City, Okla.—American National Bank will erect bank and office building; eight stories and basement; 50x140 feet; front to be of white-enamelled brick and metal cornice; first floor to be used by bank; seven upper floors to be divided into about 200 offices; elevators; cost about \$300,000.

Stamford, Texas.—Citizens' National Bank will erect addition to bank building, extending it 65 feet.

St. Louis, Mo.—Mercantile Trust Co. is financing erection of office building to replace Equitable Building; plans prepared and cost estimated at \$500,000.

St. Petersburg, Fla.—Noel A. Mitchell will have plans prepared by Bonnwell & Son of St. Petersburg for office building; brick; 100x130 feet; storerooms on ground floor and offices above; probably three or five stories high; elevator.

Tuscaloosa, Ala.—S. F. Alston purchased site 77x101 feet for \$18,500, on which to erect four-story fireproof store and office building.

White Springs, Fla.—Leslie & Johnson, Lake City, Fla., are owners of building recently noted to be constructed by them; bank and stores on first floor; offices above; structure 50x70 feet; press brick, with marble and granite trimmings; cost \$7000. (See "Machinery Wanted.")

CHURCHES

Arlene, Texas.—Presbyterian Church will erect edifice to cost about \$20,000. Address The Pastor, Cumberland Presbyterian Congregation.

Alvin, Texas.—Methodist Episcopal Church awarded contract for erection of proposed edifice. Address The Pastor, Methodist Episcopal Congregation.

Birmingham, Ala.—Sixteenth Street Baptist Church awarded contract to Windham Bros. Construction Co., 32d St. and Avenue E, Birmingham, for erection of proposed stone and brick edifice; 70x116 feet; pastorum, 24x70 feet; electric lights; steam heat; cost \$43,000; plans by W. A. Rayfield & Co., Mason Bldg., Birmingham.

Birmingham, Ala.—Baptist Church will erect edifice to cost about \$20,000. Address The Pastor, Southside Baptist Congregation.

Birmingham, Ala.—Trinity Methodist Church, Dr. Marvin Heflin, pastor, will erect edifice.

Dallas, Texas.—Presbyterian congregation contemplates erecting edifice to cost about \$100,000. Address The Pastor, First Presbyterian Church.

Dallas, Texas.—Central Christian Church, Dr. J. O. Shelburne, pastor, will remodel edifice at cost of \$4000.

Dublin, Texas.—Baptist Congregation, Rev. Mr. Minns, pastor, will erect edifice to cost \$40,000.

East Lake, Tenn.—First Baptist Church, G. A. Chunn, pastor, St. George Ave., between 2d and 3d streets, will erect \$3500 edifice; plans by R. H. Hunt, James Bldg., Chattanooga, Tenn.; frame structure; shingle roof; oiled hard pine interior finish and ceiling; hot-air heat; construction by September 1.

Fordyce, Ark.—Presbyterian congregation will erect church addition for Sunday-school. Address The Pastor, Presbyterian Church.

Fordyce, Ark.—Baptist congregation is having plans prepared for \$10,000 edifice. Address The Pastor, Baptist Church.

Greenville, N. C.—Memorial Baptist Church will enlarge building; C. C. Hook, Charlotte, N. C., submitted two drawings now being considered.

Houston, Texas.—Shearn Church is having new plans prepared by Sanguinet & Staats of Fort Worth for proposed edifice; Gothic style; principally of stone; inside dome; cost about \$150,000.

Jacksonville, Texas.—Bids are invited until April 26 for erection of pressed-brick church building costing about \$10,000; plans and specifications at office of Sparger & Peters, Bonham, Texas, or at Jacksonville; lumber may be procured from local mills; J. E. McFarland, secretary Presbyterian building committee, Jacksonville. (Recently mentioned.)

Leslie, Ark.—Methodist congregation will erect edifice to cost about \$15,000. Address The Pastor, Methodist Church.

London, Ky.—M. E. Church South will erect edifice costing \$10,000, to replace structure recently burned; semi-fireproof brick building; heating not decided; electric lighting; W. B. Catching, chairman, and Robt. McKee, secretary building committee. (See "Machinery Wanted.")

Louisville, Ky.—Christian Church will erect edifice to cost \$150,000. Address The Pastor, First Christian Congregation.

Monticello, Ark.—Presbyterian congregation will erect edifice. Address The Pastor, Presbyterian Church.

Norfolk, Va.—E. Tatterson of Norfolk has contract for erection of Christ Episcopal Church in Ghent; exterior of granite in perpendicular Gothic style of architecture; tower 129 feet high at main entrance; interior to be finished in limestone or Wawaset (stone); 20 pillars in Gothic style, 10 on each side, forming arch to be covered with quartered-oak ceiling; dimensions, 150x70 feet; seating capacity 1000; amount of bid, \$91,114 for limestone and granite and \$94,078 for granite and Wawaset; this does not include piling, concrete foundation, ornamental glass, etc.; estimated cost of completed structure, \$150,000 plan by Watson & Huckle, Philadelphia, Pa. (Recently mentioned.)

Norfolk, Va.—Baptist Church will erect edifice to cost \$2000. Address The Pastor, Fairmount Park Baptist Congregation.

Pocahontas, Ark.—Methodist Church will erect brick edifice to cost about \$6000. Address The Pastor, Methodist Congregation.

Princeton, Ark.—Dallas county will erect \$40,000 courthouse. Address County Commissioners.

Richmond, Va.—Bainbridge Baptist Church, Rev. J. W. Durham, pastor, Manchester, Va., has had plans prepared by William C. West of Richmond for Sunday-school building; two stories; brick; hot-air heating; electric lighting; cost \$5000; contract soon to be awarded.

Smyrna, Ga.—Methodist congregation, Rev. Mr. Crawley, pastor, contemplates erecting edifice to cost \$8000.

Stamford, Texas.—Methodist Church has adopted general plans by J. E. Flanders, Dallas, Texas, for edifice; brick and stone; cost about \$40,000.

Trenton, Tenn.—Christian Church will erect edifice. Address The Pastor, Christian Congregation.

COURTHOUSES

Corsicana, Texas.—Navarro County Commissioners will have plans prepared by San-

guinet & Staats, Fort Worth, Texas, for improvements to courthouse; expenditure \$20,000.

Durham, N. C.—Durham County Commissioners and city officials will consider plans prepared by H. C. Linthicum for courthouse and municipal building combined. (See "Municipal Buildings.")

Pineville, W. Va.—Wyoming county will vote March 30 on issuance of \$50,000 court-house and jail bonds. Address County Commissioners.

Snyder, Texas.—Sealed bids will be received until March 29 at office of County Judge C. R. Buchanan, Snyder, for erection and completion of three-story-and-basement fireproof courthouse. Separate bids for any part of work, as concreting, fireproofing, brick and stone work, carpenter work, steel and metal work, painting and plastering, heating, plumbing and wiring, will also be requested to be delivered at same date. Each bidder for complete work to submit with certified check of \$1500. For any part of the work certified check for 10 per cent. of amount of bid. Plans can be seen at office of County Judge C. R. Buchanan, Snyder, and at office of Land & Witchell, architects, Dallas, Texas. Estimated cost, \$80,000. (Recently mentioned.)

DWELLINGS

Alexandria, Va.—B. Well has awarded contract to S. D. Devaughan, 118 S. St. Asaph St., Alexandria, for erection of residence; three stories; brick and concrete; 22x68 feet; hot-water heat; electric lighting; cost \$75,000; plans by M. D. Morrill, Corcoran Bldg., Washington, D. C.

Anderson, S. C.—O. G. Burris has had plans prepared by J. H. Casey, Anderson, for dwelling.

Anderson, S. C.—J. F. McClure awarded contract to Honea Path Lumber Co., Anderson, for erection of dwelling; plans by J. H. Casey, Anderson.

Anderson, S. C.—C. W. McGee has had plans prepared by J. H. Casey, Anderson, for residence. (Recently mentioned.)

Atlanta, Ga.—H. E. Harman, Box 846, awarded contract to Quinn Callaway, Atlanta, for erection of residence recently mentioned; electric lighting; water supply; cost \$5000; plans by Norman & Falkner, Atlanta. (See "Machinery Wanted.")

Augusta, Ga.—Thomas Barrett, Jr., has had plans prepared by and awarded contract to Woodward Lumber Co., Augusta, for erection of two dwellings; stucco work over wood frame; half inch of plaster is laid over frame and small pebbles are stuck in plaster; seven rooms; two stories; cost \$9000.

Augusta, Ga.—David Slusky has purchased site 311x241 feet and will erect \$15,000 residence.

Baltimore, Md.—Louis J. Roth, Gaither Estate Bldg., and John C. Kempf awarded contract to George W. Showacre, 1937 Lansdowne St., Baltimore, for erection of three cottages on Garrison avenue; two and a half stories; frame; 26 feet 10 inches by 32 feet 10 inches; cost \$2800 each.

Baltimore, Md.—Edward D. Keller, 2800 Walbrook Ave., awarded contract to James A. Tarr, Baltimore, for erection of seven dwellings on Fort avenue; one store and dwelling, 15 feet 7 inches by 48 feet; six porch-front dwellings, 14x40 feet; hot-air heating; gas lighting; cost \$7500; plans by owner.

Baltimore, Md.—James W. Harvey, 1004 Union Trust Bldg., will erect two dwellings; two stories; brick; cost about \$4000; brick and cement foundations.

Baltimore, Md.—H. Clay Waldmann, 207 American Bldg., has had plans prepared by and awarded contract to American Contracting Co., American Bldg., Baltimore, for erection of 10 dwellings on Lakeview avenue; three stories; brick; 16x76 feet; 12 rooms and three baths; fronts of Pompeian brick with limestone trimmings; front porch with stone balustrade; cost about \$60,000.

Baltimore, Md.—J. J. Cowan, Hollins and Poppleton Sts., will expend \$13,000 in erection of two dwellings (contract recently noted awarded to Wm. F. Welsh, 250 West Preston St.) and stable and carriage-house in connection; two-story brick structures; plans by J. K. Stack, 12 East Lexington St.; electric elevator in carriage-house; electric lighting.

Baltimore, Md.—J. Edward Lafferty, 11 East Pleasant St., awarded contract to John A. Suhrman, Baltimore, for erection of residence on Roslyn avenue; two stories and attic; frame construction; slate roof; cost \$4000.

Bay St. Louis, Miss.—S. R. Duval, New Orleans, La., is preparing plans for three bungalows at Bay St. Louis.

Birmingham, Ala.—F. A. Lupton will erect

two-story frame residence to cost \$3000; ordinary construction; grates; electric lighting.

Birmingham, Ala.—H. F. Byrd will erect frame residence; ordinary construction; electric lighting; plans by W. A. Rayfield & Co., Mason Bldg., Birmingham.

Birmingham, Ala.—F. E. Butler, West End, had plans prepared by W. A. Rayfield & Co., Mason Bldg., Birmingham, for 35x48-foot bungalow; siding first story; stucco and half timber above; hot-air heat; electric lighting.

Birmingham, Ala.—J. C. Holsted awarded contract to S. S. Joy, Birmingham, for erection of two-story frame residence; ordinary construction; hot-air heating; electric lighting; cost \$3500.

Birmingham, Ala.—T. H. Joy will erect two-story frame dwellings; contracts awarded to S. S. Joy, Birmingham, who prepared plans for one building; ordinary construction; hot-air heating; electric lighting; cost \$3500 each.

Birmingham, Ala.—Miss Mamie Lively, Hotel Morris, awarded contract to J. E. Westbrook, Birmingham, for erection of eight-room addition to dwelling; frame; grates; electric lighting; plans by Chamberlin & Co., Birmingham. (Recently mentioned.)

Birmingham, Ala.—R. F. Collott, owner, has made plans for and will erect two-story frame residence; ordinary construction; hot-air heat; electric lighting; cost \$3000.

Birmingham, Ala.—Cooper & Pope awarded contract to R. E. Cooper for erection of \$4000 residence; one story; brick; ordinary construction; grates; electric lighting.

Birmingham, Ala.—W. P. McDairy awarded contract to Evans Bros. Construction Co. for erection of two-story, brick residence; ordinary construction; hot-air heat; electric lighting; cost \$12,000.

Black Rock, Ark.—L. B. Polndexter will award contract about April 1 for erection of \$4000 residence; two stories; pressed brick and veneer; slate roof; quartered oak and hard pine interior finish; cabinet mantels; gas and electric lighting; hot-air heating plant.

Bristol, Tenn.—Dr. J. T. McIntyre will erect 10-room frame residence after plans by Geo. W. Burnett, Bristol, Tenn.; stone foundation; hardwood finish; cabinet mantels; grates; tile hearths; slate roof; colonial columns; steam heat; electric lights.

Chattanooga, Tenn.—W. P. McBroom, care of Lookout Planing Mills, 1033 Main St., Chattanooga, is having plans prepared for residence noted in January.

Chattanooga, Tenn.—A. C. Foust will not erect residence. (Recently incorrectly reported.)

Chattanooga, Tenn.—W. E. Love, Mountain City Stove & Manufacturing Co., 623 Market St., awarded contract to J. H. Orr, Chamberlain Bldg., Chattanooga, for erection of \$4000 bungalow on Mission Ridge (suburb), recently described; plans by Huntington & Sears, News Bldg., Chattanooga.

Clarendon, Va.—Mrs. T. B. Young is having plans prepared by Harding & Upman, 729 15th St. N. W., Washington, D. C., for residence at Clarendon.

Columbia, Tenn.—Harris Gant will erect concrete cottage.

Comfort, Texas.—H. P. Drought, San Antonio, Texas, will erect residence near Comfort; gray brick; two stories; 16 rooms.

Danville, Va.—Julius Kaufman will erect \$3000 residence after plans by McLaughlin, Pettit & Johnson, 211 Ninth St., Lynchburg, and Masonic Bldg., Danville, Va.; slate roof; hot-water heating; hardwood finish; press brick; three bathrooms.

Groesbeck, Texas.—T. L. Buchanan awarded contract to J. P. Fowler, Groesbeck, for erection of residence.

Hagerstown, Md.—E. A. Wareham has plans by Architect Yessler, Hagerstown, for remodeling residence; wide high porch across front; fancy roof, with stone in the gables; three bathrooms, with tiled floors and walls; cost of improvements \$12,000.

Houston, Texas.—J. J. Carroll will erect residence.

Knoxville, Tenn.—Wallace J. Frazer awarded contract for \$3000 bungalow recently mentioned. (See "Machinery Wanted.")

Lampasas, Texas.—Mrs. R. Wachendorfer will erect addition to residence; two stories; 36x36 feet.

Lookout Mountain, Tenn.—J. I. Carter, 1000 Georgia Ave., is having plans prepared by D. V. Stroop, James Bldg., Chattanooga, for \$5000 residence.

Ennis, Texas.—Earl Fain will erect \$10,000 residence.

Maplewood, Station St. Louis, Mo.—Davis-Koester Realty & Investment Co. contemplates erection of 25 to 35 houses at cost from \$75,000 to \$90,000; plans by William Koester.

Magnolia, Miss.—H. C. Moore of Magnolia Cotton Mills has purchased site for \$1500 and will erect residence.

New Orleans, La.—M. Estalote has had plans prepared by R. Sidney Hernandez, New Orleans, for double two-story frame residence.

New Orleans, La.—Henry Ernst awarded contract to Alfred Garrett for erection of residence recently mentioned; two stories; frame; slate roof; ordinary construction; cost \$4500; plans by Keenan & Weiss, 417 Hibernian Bldg., New Orleans.

New Orleans, La.—Charles Cileitto has had plans prepared by R. Sidney Hernandez, New Orleans, for single two-story residence.

New Orleans, La.—William Wren is having plans prepared by Frank G. Collom & Co., New Orleans, for two-story frame residence.

New Orleans, La.—Samuel Herndon, 151 Baronne St., has had plans prepared by Crosby & Henkel, 705 Morris Bldg., New Orleans, for two-story frame residence; steam heat; cost \$12,500.

New Orleans, La.—Mrs. Margaret Farwell will erect \$6000 frame residence after plans by Crosby & Henkel, 705 Morris Bldg., New Orleans; fireplaces.

New Orleans, La.—James P. Williams, Nelson, between Short and Fern Sts., has had plans prepared for \$7000 frame residence by Crosby & Henkel, 705 Morris Bldg., New Orleans.

Norfolk, Va.—E. A. Watkins awarded contract to J. A. Litchfield, Norfolk, for erection of four double brick dwellings and one store building; cost \$7200.

Oklahoma City, Okla.—George S. Ryan will erect residence; veneered brick; two stories; cost \$4000.

Oxford, N. C.—Granville Real Estate & Trust Co. will build a number of cottages.

Pass Christian, Miss.—Samuel F. Heaslip awarded contract to Frank Whitman, Pass Christian, for erection of dwelling recently mentioned; single raised cottage; ordinary construction; tile roof; tile bathrooms; gas and electric lighting; hardwood trimmings throughout; hot-air heating; cost \$7800; plans by Keenan & Weiss, 417 Hibernian Bldg., New Orleans.

Pineville, Ky.—Thomas Ware awarded contract to G. L. Hunt for erection of residence; two stories; brick; 10 rooms.

Pineville, N. C.—Presbyterian congregation contemplates erection of manse; Rev. R. W. Borthwick, pastor.

Prescott, Ark.—Sam Logan will erect residence on Christian Ridge.

Prescott, Ark.—G. R. Haynie will erect seven-room residence.

Ripley, Tenn.—C. R. Barbee awarded contract to Hathaway & McCabe, Ripley, for \$9000 residence after plans by Thos. S. Marr, Nashville, Tenn.; two-story brick and stone structure with hot-air heat. (Recently incorrectly noted.)

Sapulpa, Okla.—W. D. Richardson will erect residence; Colonial style; cut stone and stained shingles; cost \$8000.

Seneca, S. C.—F. S. Holleman has had plans prepared by J. G. Casey, Anderson, S. C., for residence.

Staunton, Va.—R. E. R. Nelson, 2 Law Bldg., awarded contract to M. B. Stoddard, Staunton, for erection of proposed dwelling; plans by T. J. Collins & Son, Staunton; 13 rooms, exclusive of basements and closets; two stories; brick veneer and shingle; ordinary construction; hot-water heat; gas and electric lighting; cost \$6000.

St. Louis, Mo.—Edward L. Preatorius will erect residence; 15 rooms and three marble bathrooms; cost about \$25,000.

St. Louis, Mo.—Samuel H. Bauman will erect dwelling; colonial style; 11 rooms; cost about \$25,000.

St. Louis, Mo.—J. H. Boehl will erect \$10,000 residence.

Trenton, Tenn.—G. W. Wade will erect two-story brick residence.

Walbrook Station, Baltimore, Md.—J. W. Smith has awarded contract to Geo. R. Morris, 810 Equitable Bldg., Baltimore, for erection of two dwellings at Walbrook; two-stories and attic; 26x28 feet; slate roof; hot-water heating; cost \$7000.

Washington, D. C.—L. L. Thompson, 1110 F St. N. W., has had plans prepared by Harding & Upman, 729 15th St. N. W., Washington, for residence on Irving street; about 40-foot frontage; colonial style; circular porch, above which will be oriel window.

Washington, D. C.—R. B. Tuley, 6th St. N. W., has had plans prepared by Oscar G. Vogt, Corcoran Bldg., Washington, for residence on Emerson street, Saul's Addition; pebble-dash; two stories; finished attic and cellar; modified mission style; slate roof; porch at front and side; roof of porch supported by concrete columns; hall and stairway trimmings of Flemish oak; open fireplace in dining-room; hardwood floors.

Washington, D. C.—Louis Steerman, 1236 Columbia Rd. N. W., has had plans prepared by A. H. Beers, 1333 G St. N. W., Washington, for three dwellings at Calvert and Connecticut avenues; 10 rooms; three baths; hardwood floors; tile roofs; cost about \$14,000.

Washington, D. C.—Joseph A. Herbert, 302 East Capitol St., will erect five dwellings on 13th street; two stories; brick; cost \$5500 each.

GOVERNMENT AND STATE BUILDINGS

Fayetteville, N. C.—Postoffice.—Bids will be received at Treasury Department, office of James Knox Taylor, Supervising Architect, Washington, D. C., until April 15 for construction (including plumbing, gaspiping, heating apparatus, electric conduits and wiring) of U. S. postoffice at Fayetteville in accordance with drawings and specifications, copies of which may be obtained from Custodian of Site at Fayetteville, or at above office, at discretion of Supervising Architect; \$70,000 appropriated. (See "Heating Apparatus" in "Machinery, etc., Wanted.")

Fort Monroe, Va.—Post Exchange.—Sealed proposals for construction, heating, plumbing and electric lighting for addition to post exchange at Fort Monroe will be received at office of Constructing Quartermaster until April 9. Bidders to state name of manufacturers supplying material. Information on application, Ernest R. Tilton, Captain and Constructing Quartermaster. (See "Machinery Wanted.")

Sumter, S. C.—Postoffice.—Bids will be received at office of James Knox Taylor, supervising architect, Treasury Department, Washington, D. C., until April 19 for construction complete of United States postoffice at Sumter, in accordance with drawings and specification, copies of which may be obtained at above office or at office of Postmaster at Sumter, at discretion of supervising architect.

Vicksburg, Miss.—Building.—H. K. Hardy, Jackson, Miss., is lowest bidder at \$3800 for remodeling Federal building at Vicksburg.

HOTELS

Atlanta, Ga.—Mrs. W. W. Draper, Mrs. Seaborn Wright, Mrs. Hugh McKee and Wilmor Moore are having preliminary plans prepared by A. Ten Eyck Brown, 71 N. Forsyth St., Atlanta, for apartment-hotel; fireproof; cost about \$200,000.

Atlanta, Ga.—A. L. Cuesta will erect 10-story fireproof hotel; plans to be prepared by A. Ten Eyck Brown, 71 N. Forsyth St., Atlanta.

Baltimore, Md.—Patrick E. Kirwan, Hotel Kirwan, 104 West Fayette St., has had plans prepared for addition of two stories.

Biloxi, Miss.—H. M. Folkes will award contract March 30 for erection of hotel recently mentioned; three stories and cellar; frontage 288 feet; 150 rooms; frame; tile roof; tile lobby and baths; tile-roofed towers; bronze grilles; ordinary construction; steam vacuum system heating; electric lighting; telephone system; combined freight and passenger elevator; dumb waiter; kitchen and laundry equipment; cost about \$70,000; plans by Keenan & Weiss, 417 Illinoian Bldg., New Orleans, La. (See "Machinery Wanted.")

Bristol, Tenn.—J. M. Barker is having plans prepared by Burnett & Owen, Bristol, Tenn., for annex to St. Lawrence Hotel, recently mentioned; three stories; brick; 75x200 feet; concrete foundations and basement; buff press-brick front; stone and terra-cotta trimmings; steel girders; polish plate; Lucifer prism glass; two large steel doors; fire escape; hardwood finish; electric lighting; steam heat; all rooms to have baths.

Chickasha, Okla.—J. T. Early, proprietor Royal Hotel, contemplates erecting hotel; four stories; 100x100 feet; 115 rooms; 62 with baths.

Chickasha, Okla.—Chicago, Rock Island & Pacific Railway, W. S. Tinsman, manager (South and Choctaw District), reported to erect hotel at Chickasha; 21 guestrooms; cost about \$28,000.

Collegeport (not a postoffice), Texas.—J. L. Woodward, Barnesville, Ohio, awarded contract to O. A. Ritzenhouse & Co., Pal-

atos, Texas, for erection of seaside hotel at Collegeport; three stories; 120x120 feet; two wings, each being 32x120 feet; along south and west fronts 16-foot veranda to extend full distance of 240 feet; 27 sleeping-rooms; dining-room 22x48 feet; plans by Mr. Lodge, architect, Bay City, Texas.

El Reno, Okla.—L. F. Lee of Oklahoma City, Okla., has contract for addition to Southern Hotel; three stories; 75x132 feet; fireproof; stone trimmings; will be connected with main building by archway above first story; contain 100 rooms and 24 private baths; storerooms on first floor, two to be 25x105 feet, and one 25x40 feet; steam heating; electric and gas lighting; cost about \$55,000. (Mentioned in January.)

Fort Worth, Texas.—Terminal Hotel Co. incorporated with \$10,000 capital stock by George T. Stillman, Winfield Scott, N. Moore and J. C. Clopton.

Hagerstown, Md.—Hotel Hamilton will be enlarged so as to double capacity.

Johnson City, Tenn.—R. D. Parsons, lessee, is considering erection of annex to Arlington Hotel; frontage 60 feet; three stories; contain about 50 bedrooms.

Lakeland, Fla.—Dr. J. L. McKay and Mrs. L. Dally, Kings Mountain, N. C., contemplate erecting tourist hotel on north shore of Lake Hollingsworth; cost \$40,000.

Marion, N. C.—J. M. Michael, Charlotte, N. C., will prepare plans and specifications for hotel at Marion; 42 guest rooms, lobby and dining-room, 8 rooms with private bath; steam heat; cost \$30,000; J. H. Gray is lessee.

St. Petersburg, Fla.—Mr. Hollenbeck is considering plans for enlargement of Hollenbeck Hotel; will add about 15 rooms and 15 bath-rooms.

Savannah, Miss.—John and James Kerr, Arkabutla, Miss., will erect hotel at Savannah.

St. Petersburg, Fla.—Bonnwell & Son of St. Petersburg have completed plans for proposed hotel to contain 150 rooms.

Tampa, Fla.—W. L. Parker, proprietor DeSoto Hotel, will erect addition.

Thomasville, Ga.—Board of Trade is promoting organization of company to erect \$100,000 tourist hotel; Board has conferred with J. A. Wood, architect, of New York relative to preparation of plans.

Trinity, Texas.—J. B. Gibson is having plans prepared for 50-room brick hotel he will erect on site of Holland House, lately destroyed by fire.

Trinity, Texas.—J. B. Gibson is having plans prepared for hotel; brick; 40 rooms.

Tylertown, Miss.—J. F. Norman awarded contract to G. A. Linton of Tylertown for erection of hotel; 16 rooms; leased to Mrs. L. A. Welch.

Washington, D. C.—Metropolitan Hotel Co. Robert Callahan, Jr., manager, 613 Pennsylvania Ave. N. W., will erect 10-story hotel.

Waynesville, N. C.—Mrs. L. M. Knight awarded contract to S. C. Liner and J. P. Francis of Waynesville for erection of 10-room brick annex to Kenmore Hotel.

MISCELLANEOUS STRUCTURES

Anderson, S. C.—Store Building.—G. F. Tolley & Son will erect store building; 55x200 feet; three stories; 30,000 square feet floor space.

Anderson, S. C.—Store Building.—W. H. Pepper will erect store building; probably three stories; brick; 25x100 feet.

Anderson, S. C.—Store.—G. F. Tolley & Son will erect store 55x200 feet; J. H. Casey, Anderson, is preparing plans.

Atlanta, Ga.—Business Building.—W. M. Timmons will erect four-story business building.

Atlanta, Ga.—Store and Apartment Buildings.—Frank P. Rice contemplates erection of five store and apartment buildings.

Atlanta, Ga.—Business Building.—Eugene and Gordon Mitchell, for Mitchell estate, will erect business building.

Baltimore, Md.—Clubhouse.—Walbrook Athletic Club, Clifton Ave. and 15th St., Harry McKim, secretary, has plans by L. Hay Eichberger, Baltimore, for clubhouse at Walbrook; three stories; bowling alleys, locker-rooms and shower baths in basement; reception-room, dining-room, reading-room, etc., on first floor; upper floor will contain dance hall 33x40 feet and caretaker's apartments; wide porches overlooking 12 tennis courts; new grounds will be surrounded by running-track and will enclose 120-yard straight-away, baseball diamond and football field; will erect concrete grandstand at 14th street and Clifton avenue; cost of improvements, \$15,000.

Birmingham, Ala.—Lodge Building.—Elks' Lodge will erect three-story brick building; plans by W. A. Rayfield & Co., Mason Bldg., Birmingham; concrete construction; electric lighting; steam heat; C. H. Harris, chairman building committee.

Birmingham, Ala.—Store, etc.—W. C. Richards, Columbus, Miss., will erect office and store building. (See "Bank and Office Buildings.")

Birmingham, Ala.—Store.—Jos. M. Tanory, 314 South 20th St., awarded contract to Mr. Moore for remodeling dry goods building; new front, plate glass, marble, etc.; plans by Chamberlin & Co., Birmingham. (Recently mentioned.)

Birmingham, Ala.—Garage.—Thos. C. Cairnes, owner, has prepared plans for and will erect garage to cost \$3500; ordinary construction; electric lighting.

Chattanooga, Tenn.—Stable.—G. B. Glenn, care of Chattanooga Feed Co., 1447 Market St., awarded contract to E. A. Clifton, 313 Long St., Chattanooga, for erection of proposed two-and-one-half-story livery stable on East Main street; brick; composition roof.

Copper Hill, Tenn.—Club Building.—Cowanee Club is having plans prepared by Huntington & Sears, News Bldg., Chattanooga, for \$10,000 club building; two stories and basement; frame; cement foundation; shingle roof; steam heat; electric lighting; swimming-pool, etc.; owner will receive proposals.

Dallas, Texas—Business Building.—Joseph M. Dickson has had plans prepared by S. P. Brickey & Son, Dallas, for business building; three stories; brick; pressed-brick front; 50x100 feet; gas heat; electric and gas lights; modern system of ventilation; cost about \$35,000.

Dublin, Ga.—Business Building.—J. O. Barnes will erect business building; two stories and basement; brick.

Durant, Okla.—Hall.—Durant Lodge No. 33, I. O. O. F., and W. O. W., Lignumvitae Camp No. 558, had plans prepared by W. A. Stephens, Durant, for two-story brick building recently mentioned; 45x110 feet; storerooms on lower floor; lobby and banquet hall above; pressed-brick front; concrete columns and finish; electric lighting; cost \$12,000; bids to be opened March 25.

Ekon, Ky.—Barns.—Ben Clarkson will erect several large tobacco barns.

Elkins, W. Va.—Masonic Temple.—Masonic Lodge, No. 696, will erect two-story temple.

El Reno, Okla.—Business Building.—F. M. Swaggart will not erect fireproof business building. (Recently incorrectly reported.)

Fort Valley, Ga.—Business Building.—A. J. Evans will erect four-story business building.

Gary, Fla.—Store Building, etc.—L. N. Milam awarded contract to Fisher & Betha, Tampa, Fla., for erection of brick store building 90x40 feet, and 60x100-foot warehouse; cost \$8000.

Groesbeck, Texas—Business Building.—B. J. Williams awarded contract to J. P. Fowler, Groesbeck, for erection of 80-foot addition to business building.

Groesbeck, Texas—Business Building.—H. H. Butler will erect two-story brick business building.

Hartselle, Ala.—Store Buildings.—R. T. Puckett, J. T. Tarver and W. V. Echols will erect three brick store buildings; total cost about \$15,000.

Hartselle, Ala.—R. T. Puckett, J. T. Tarver and W. V. Echols will erect three brick store buildings; cost \$15,000.

Huntsville, Ala.—Stable.—W. J. Bennett & Co. awarded contract to Bost & Lumberson, Huntsville, for erection of stable recently noted; cost \$5000.

Kansas City, Mo.—Business Building.—Langston Bacon will erect business building to replace burned structure; five stories; fireproof; foundation to carry eight stories; plans by Root & Stevens, Kansas City. (Recently mentioned.)

Lampasas, Texas—Business Building.—Little & Barnes awarded contract for erection of business building.

Madison, W. Va.—Lodge Building.—Independent Order of Odd Fellows is having plans prepared by Mr. Castle, Madison, for lodge building; three stories; 40x74 feet; cost \$12,000.

Marietta, Ga.—Armory.—Marietta Rifles had plans prepared by Mr. Archer, Marietta, for erection of armory; to contain drill hall 62x50 feet; quartermaster rooms, gymnasium, etc.; entire structure will be 140x30 feet; J. J. Black, Marietta, contractor.

Maryville, Tenn.—Store Building.—Professor Waller will erect store building; three stories; finished basement; to be occupied by hardware company organized by R. G. McNutt and others.

Mocksville, N. C.—Jail.—Davie county awarded contract to Falls City Construction Co., Louisville, Ky., for erection of jail recently noted; concrete structure; plans by O. L. Hitchcock, 1008 Lincoln Bank Bldg., Jonesville, Ky.

Monroe, N. C.—Market.—Shute Bros. contemplate erection of market.

Newbern, N. C.—Store Buildings.—W. B. Blader awarded contract to Rhodes & Underwood, Newbern, for erection of three stores; two stories; pressed-brick front; cost \$12,000.

Norfolk, Va.—Store Building.—E. A. Watkins awarded contract to J. A. Litchfield, Norfolk, for erection of store building and four dwellings, to cost \$7200.

New Orleans, La.—Store and Dwelling.—Marion Brignac will erect store and dwelling.

Oklahoma City, Okla.—Store Building.—Mrs. Augusta Wright, recently noted to award contract to Gross Construction Co., Oklahoma City, will erect structure five stories and basement, with provision for three additional stories; Carthage stone facing; interior finished in mahogany birch; hardwood floors, one of which will be quarter-sawn oak; two entrances; front supported by 56-inch steel girder; revolving doors; length and breadth of building lighted by prism glass; light court entire length of building 5x97 feet; two passenger elevators; steam vacuum heat; artificial ventilation; fireproof construction; enclosed staircase around each elevator; elevator shafts will be encased to render them fireproof; cost about \$150,000; plans by Charles E. McMillen, Oklahoma City.

Oklahoma City, Okla.—Business Block.—J. Culbertson will erect business block; two stories; brick; 40x140 feet; cost \$25,000.

Pensacola, Fla.—Jail.—Escambia County Commissioners will erect addition to county jail at Pensacola.

Pineville, W. Va.—County will vote March 30 on \$50,000 bond issue for erection of jail and courthouse at Pineville. Address Wyoming County Commissioners.

Pocahontas, Ark.—Business Building.—Pocahontas Produce & Commission Co. will erect brick business building.

San Antonio, Texas—Store Building.—G. A. Stowers Furniture Co., 701 Main St., Houston, Texas, will open bids March 29 for erection of store building at San Antonio; plans and specifications on file at Houston store.

Sapulpa, Okla.—Masonic Temple.—Masonic Lodge will erect three-story pressed-brick temple; site 75x140 feet.

Savannah, Miss.—Store Building.—John Kerr and James Kerr, Arkabutla, Miss., will erect store building; construction begun.

Stanton, Texas—Store.—M. E. Campbell will rebuild store building recently reported burned; plans not decided; structure to be of stone, brick or cement block; 25 or 50 foot front; electric lighting; cost from \$3000 to \$6000. (See "Machinery Wanted.")

Stanton, Texas—Store Building.—Hamilton, O'Brien & Epley Hardware Co. will erect store building to replace burned structure; brick; 40x10 feet.

Stanton, Texas—Business Building.—J. L. Dowdy will erect brick business building.

St. Louis, Mo.—Store Building.—United Cigar Stores Co., main office, New York, has leased space in store building and will expend about \$10,000 for improvements.

St. Petersburg, Fla.—Sanitarium.—Dr. Wm. Lee Secor, Chicago, Ill., has purchased Manhattan Hotel and will expend \$20,000 to remodel for sanitarium.

Tampa, Fla.—Business Building.—E. Neve will erect business building; two stories; brick; 50x56 feet.

Temple, Texas—Business Building.—S. S. and Louis J. Bryan will erect business building.

Waurika, Okla.—Store, Lodgerooms, etc.—E. J. Kelley will erect three-story building; 50x140 feet; store on first floor; offices above; lobby and club rooms on third floor; brick; probably steam heating; shaft for elevator; cost \$35,000; plans by O. H. P. Rudesill & Son, Houston, Texas.

Winston-Salem, N. C.—Orphanage.—Western North Carolina M. E. Conference selected Hook & Rogers, Charlotte, N. C., to prepare plans for orphanage buildings noted in January; cost \$100,000; central or administration building to be erected at once; entire group to be heated by central plant; group of eight buildings includes two-story administration building, three-room one-story school building; one-story church, seating from 300 to 350; one-story infants' building, and one and two story other structures; J. K. Norfleet, P. H. Hanes, C. H. Ireland and Walter Thompson, members of building committee.

MUNICIPAL BUILDINGS

Baltimore, Md.—Hospital Buildings.—Parke, Thomas & Rice, 1109-1111 Union Trust Bldg., Baltimore, prepared plans, recently mentioned as approved by Supervisors of City Charities, for one of buildings to be erected at Bayview Asylum; group of five buildings will be erected, each to be two or three stories high and cost about \$100,000; work will soon begin on first structure, for which Board of Estimates has appropriated \$75,000.

Charleston, S. C.—Engine-house.—City will erect fire station to be known as No. 8; two stories; brick; site 215x100 feet; \$7500 appropriated; J. H. Dingle, City Engineer.

Durham, N. C.—Buildings.—H. C. Linthicum of Durham has submitted plans to Board of Aldermen for building to include courthouse and city hall; city is also considering building market and theater combined; \$40,500 available for market; these structures are to replace burned buildings. (Recently mentioned.)

Frederick, Md.—Hospital.—Board of Charities and Corrections awarded contract for erection of additional building for negro inmates at Montevue Hospital and for building pesthouse.

Greenville, N. C.—Office and Fire-department Building.—City will erect municipal office building for city officials and fire department. Address The Mayor.

St. Louis, Mo.—Library.—Library Board approved plans by Mariner & LeBeaume of St. Louis for Divoll Branch of public library.

St. Louis, Mo.—Police Station.—Board of Police Commissioners purchased site for \$18,500 at 10th and Carr streets, on which to erect station.

Warren, Ark.—Library.—W. N. Alsop, Charleston, Miss., will prepare plans for Carnegie Library at Warren.

Wynnewood, Okla.—City Hall.—City has voted \$9000 of bonds for city hall. Address The Mayor.

RAILWAY STATIONS

Alexandria, La.—Chicago, Rock Island & Pacific Railway Co., J. B. Berry, chief engineer, Chicago, Ill., is not contemplating erection of building. (Recently incorrectly reported.)

Brinkley, Ark.—St. Louis Southwestern Railway, M. L. Lynch, chief engineer, Tyler, Texas, and Chicago, Rock Island & Pacific Railway, J. B. Berry, chief engineer, Chicago, Ill., will, it is reported, construct union passenger station at Brinkley.

Chickasha, Okla.—Chicago, Rock Island & Pacific Railway, W. S. Tinsman, manager (Soo and Choctaw district), reported to erect depot in Chickasha.

Fitzgerald, Ga.—Atlanta, Birmingham & Atlantic Railroad, H. M. Atkinson, receiver, Atlanta, Ga., reported to have plans for concrete union depot at Fitzgerald to cost \$20,000.

Gadsden, Ala.—Louisville & Nashville Railroad contemplates soon beginning erection of union passenger station in Gadsden; speckled buff brick and white stone; Spanish style of architecture; 50x150 feet; shed to be umbrella style with granitoid floors; cost about \$45,000; site comprises eight acres, whole of which will be graded to level with main tracks. T. E. Brooks, Birmingham, Ala., division superintendent, has submitted plans to business men of Gadsden, after which they will be forwarded to Louisville for approval: W. H. Courtenay, chief engineer, Louisville.

Memphis, Tenn.—Lakeview Traction Co. purchased Y. M. C. A. building, 80x200 feet, at \$55,000, and will improve for interurban depot.

Norman, Okla.—Gulf, Colorado & Santa Fe Railway, C. F. W. Felt, chief engineer, Galveston, Texas, will erect passenger station at Norman to cost about \$15,000.

Port Arthur, Texas.—Southern Pacific Railroad, A. V. Kellogg, engineer M. W., Houston, Texas, reported as having plans prepared for passenger station at Port Arthur.

SCHOOLS

Abilene, Texas.—City has voted \$40,000 of bonds for enlarging and erecting school buildings. Address The Mayor. (Previously mentioned.)

Alva, Okla.—City contemplates issuing \$25,000 of bonds for erection of school building. Address The Mayor.

Amite City, La.—City will vote April 20 on special tax for erection of \$30,000 school building. Address The Mayor. (Recently mentioned.)

Baltimore, Md.—Board of Awards has re-

jected all bids for erection of school building at Reisterstown road and Fifth avenue, and will receive new bids at office of J. Sewell Thomas, City Hall, until March 24 for erection of same; three stories; brick; 24 classrooms; certified check for \$500, payable to Mayor and City Council; bids must be on form of proposals at end of printed form of specifications and must be attached; plans and specifications on file at office of Edward D. Preston, Inspector of Buildings, City Hall; plans by Otto G. Simonson, American Bldg., Baltimore; J. Barry Mahool, Mayor. (Recently noted.)

Biloxi, Miss.—Bids will be opened March 25 for material and labor of all kinds necessary for construction and delivery of colored school building; plans and specifications and other necessary information may be obtained at offices of F. B. Castanera, chairman public building committee, or at City Clerk's office.

Cameron, S. C.—City will vote March 22 on bond issue for erection of school building. Address The Mayor.

Canton, N. C.—City will issue \$15,000 of bonds for erection of school building. Address The Mayor.

Columbia, S. C.—City has accepted plans by Sayre & Baldwin, Anderson, S. C., for proposed Shandon City school building, to cost \$10,000.

Cullman, Ala.—City will erect school building; two stories and basement; eight rooms; brick or stone; steam heat; toilet-rooms; lavatories; cloakrooms; electric lights; cost about \$10,000; George Beyer, Mayor.

Decatur, Ga.—Donald Fraser School will erect building to cost \$20,000; common brick; stuccoed; slate roof; automatic fire doors; steam heat; electric fixtures; lavatories, closets, bathtubs and showers; plans by McLaughlin, Pettit & Johnson of Danville and Lynchburg, who will receive bids and may be addressed at Masonic Bldg., Danville, Va.

Durham, N. C.—Dr. James E. Shepard contemplates erecting training-school; buildings to cost \$50,000.

Front Royal, Va.—Eastern College will erect three-story building to replace burned structure; first story for recitation halls; dormitories above.

Fort Worth, Texas.—City has accepted plans for proposed First ward school building; 10 rooms; cost about \$35,000. Address The Mayor.

Grand Coteau, La.—E. E. Carroll has contract for erection of St. Charles College building; estimated cost \$150,000; 336 feet front; two wings, 110x46 feet each; three stories; brick; steam or hot-water heat; electric or acetylene gas lighting; elevator and dumb waiter; plans by Diboll, Owen & Goldstein, New Orleans, La.; Rev. H. L. Marling, president. (Previously mentioned.)

Huntsville, Ala.—Huntsville Training School, F. W. Williams, principal, contemplates erection of \$10,000 dormitory and gymnasium.

Laurel, Miss.—City will erect additional school buildings. Address The Mayor.

Laurel, Miss.—City will vote on issuance of \$10,000 bonds for schools. Address The Mayor.

Lynchburg, Va.—McLaughlin, Pettit & Johnson of Lynchburg and Danville, Va. (not Johnson & McLaughlin, as recently stated), are among architects submitting competitive plans for city school buildings mentioned lately; one to cost \$100,000 and three to cost \$80,000 each.

Marlow, Okla.—School Board awarded contract to Marlow Construction Co. for erection of proposed \$40,000 school building; plans by Haar & Smith, Chickasha, Okla., and Salina, Kans.; brick and stone structure; 120x80 feet; mill construction; furnace heat.

Mayesville, S. C.—City has voted \$7000 of bonds for erection of school building. Address The Mayor.

Mounds, Okla.—Competitive plans and specifications will be received by A. M. Brixey, secretary board of trustees Creek County High School, Mounds, until April 3 for county high-school building; 18 or 20 rooms; brick or reinforced cement; steam-fan heat; automatic ventilation; flush pool septic tank; gravity sewerage; cost not to exceed \$60,000; P. T. Frye, president of trustees, Sapulpa, Okla.

New Orleans, La.—Budget committee of Council will ask appropriation of \$300,000 for erection of two high-school buildings. Address The Mayor.

Norfolk, Va.—City has accepted plans by Neff & Thompson, Norfolk, for high-school building noted in February; colonial style; three stories and basement; brick with stone trimmings; unilateral light; forced-draft fan system heating and ventilating; cost about \$750,000.

Osage, Okla.—Commissioner of Indian Affairs, Indian Office, Washington, D. C., will receive bids until April 6 for furnishing materials and labor necessary to construct and complete dormitory at Osage Indian School, Oklahoma; plans and specifications on file at Indian Office; offices of Improvement Bulletin, Minneapolis, Minn.; American Contractor, Chicago, Ill.; Western Contractor, Kansas City, Mo.; United States Indian warehouses, Chicago; St. Louis, Mo.; Omaha, Neb.; New York, N. Y.; Builders and Traders' exchanges, St. Paul Minn.; Omaha, Neb.; Minneapolis, Minn.; Northwestern Manufacturers' Association, St. Paul, Minn., and at school; for further information apply to superintendent, Indian School, Osage Agency, Pawhuska, Okla.; R. G. Valentine, acting commissioner.

Plainview, Texas.—Baptist College awarded contract at \$60,000 to Globe Construction Co., Salina, Okla., for erection of proposed college building.

San Antonio, Texas.—Ursuline Academy will expend \$150,000 for erection of three-story-and-basement building, and remodeling and erecting additions to present buildings.

Sapulpa, Okla.—Creek county will erect county high-school building to cost about \$50,000. Address County Commissioners.

Scullin, Okla.—City contemplates voting on \$10,000 bond issue to erect school building. Address The Mayor.

Shreveport, La.—City, recently noted to erect school, will build brick-and-stone structure; three stories; assembly hall to seat 500; foundry room, machine shop, woodwork and demonstration room, paint room, sheet-metal room, domestic science section, with kitchen, swimming pool, etc., in basement; cost about \$60,000. Address The Mayor.

Sparta, Tenn.—City has voted \$15,000 of bonds to erect high-school building; J. R. Tubb, Mayor.

Springfield, Mo.—City contemplates voting on \$150,000 bond issue for school improvements. Address The Mayor.

St. Stanton, Texas.—City will vote March 20 on \$15,000 bond issue for erection of school building. Address The Mayor.

St. Bernard Parish, La.—School Board of St. Bernard parish awarded contract to J. C. Bourg, Arabi, La., for erection of \$4000 school building; ordinary construction.

Tecumseh, Okla.—City will erect schoolhouse; \$15,000 available; W. R. Asher, Mayor.

Texarkana, Texas.—City has not selected architect to prepare plans for high-school building recently mentioned; as proposed, structure to be fireproof; cost \$90,000; A. S. Watlington, president School Board.

University, Ala.—University of Alabama, John W. Abercrombie, president, is considering plans by Frank Lockwood, Montgomery, Ala., for remodeling Wood's Hall at a cost of about \$20,000.

Washington, D. C.—Howard University, 6th St. and Howard Pl. N. W., will award contract between April 1 and 15 for erection of \$50,000 library building recently mentioned; plans by Whitfield & King, 160 Fifth Ave., New York; three-story structure; 95x60 feet; slow-burning construction; heat from main plant.

Weatherford, Okla.—Southwestern State Normal School will open bids March 20 for erection of \$100,000 building; plans on file at office of State Superintendent, E. D. Cameron, Guthrie, Okla., with John L. Mitch, secretary board of regents; plans by Chas. A. Sudhoefer, Weatherford. (Noted in February.)

Weatherford, Texas.—City will vote April 5 on \$12,000 bond issue for high-school building recently noted; architect not selected; structure to have stone walls, steam heat and electric lighting; bids opened about May 1; H. L. Moseley, Mayor.

Woodward, Okla.—City has voted \$75,000 of bonds for erection of 20-room school building. Address The Mayor. (Mentioned in February.)

Wynnewood, Okla.—City has voted issuance of \$15,000 school bonds. Address The Mayor.

THEATERS

Baltimore, Md.—H. A. Fitzjarrell of H. A. Fitzjarrell & Co., 102-104 West Lombard St., has leased Dime Savings Bank Building at 28 West Lexington street and will remodel as moving-picture theater; plans are being prepared by A. Lowther Forrest, Professional Bldg., Baltimore.

Baltimore, Md.—George C. Wilson, Tyrone, Pa., purchased three-story brick building at 418 East Baltimore street, adjacent to two lots at 12 and 14 North Gay street, recently stated as purchased; frontage on Baltimore street about 22 feet, and on Gay street com-

bined frontage 43 feet. Mr. Wilson will erect moving-picture theater on Gay street and remodel Baltimore-street building for same purpose; expenditure, \$50,000.

Baltimore, Md.—David Newman, 1105 North Broadway, purchased property on Broadway near Gay street and will remodel as moving-picture theater; seating capacity about 300.

Bristol, Va., Tenn.—Frank Lynn and Earl Smith will erect summer theater; 50x110 feet; seating capacity 1000.

Dallas, Texas.—H. M. Hughes, San Francisco, Cal., has, it is reported, received plans for \$25,000 theater and summer garden in Dallas.

New Orleans, La.—Del' Isle & Orr of New Orleans have prepared plans for remodeling and enlarging brick building on Magazine street for moving-picture theater.

WAREHOUSES

Baltimore, Md.—T. J. Zimmerman & Bro., Arlington (station, Baltimore), purchased about one acre in West Arlington on which to erect storage warehouse and stores.

Baltimore, Md.—Baer Bros. have plans by Frank & Cavanaugh, Baltimore, for warehouse; four stories in front and three in rear; 80x83 feet; first floor of reinforced concrete; upper stories of heavy mill construction; contractors estimating include George A. Blake, 301 Law Bldg.; Eugene D. Springer, 424 S. Charles St.; Milton C. Davis, 5 Hopkins Place; Hopkins-Barnett Company, 1159 Calvert Bldg.; William T. Murphy, 908 N. Howard St., and Morrow Bros., 218 W. Saratoga St., all of Baltimore.

Clayton, N. C.—J. A. Vinson, D. W. Barber, C. W. Horne, C. M. Thomas and others organized company to erect two tobacco warehouses.

Dallas, Texas.—J. J. Simmons will erect warehouse; three stories and basement; 100 feet square; brick and mill work; concrete floors; electric elevators; cost \$100,000; plans by Lang & Witchell of Dallas have been approved.

Gary, Fla.—L. N. Millam awarded contract to Fisher & Beta, Tampa, for erection of 60x100-foot warehouse. (See "Miscellaneous Structures.")

High Point, N. C.—People's Housefurnishing Co. will erect warehouse.

Kansas City, Mo.—Dold Packing Co., J. C. Dold, vice-president, Buffalo, N. Y., reported as contemplating erection of several storage warehouses on six acres at Kansas City.

Kansas City, Mo.—Fairbanks, Morse & Co., Chicago, Ill., reported to erect warehouse in Kansas City; eight stories; reinforced concrete; site 48x130 feet; cost about \$60,000.

Kansas City, Mo.—Otto H. Hesse, Leavenworth, Kans., will erect building recently mentioned (under "Miscellaneous Structures"); brick and concrete warehouse and repair department for vehicles and motor cars; null construction; three stories and basement; 50x105 feet; electric lighting; cost \$10,000; no machinery needed; construction by owner.

Lagrange, Ga.—Unity Cotton Mills awarded contract to John F. Grandy & Son, Greenville, S. C., for construction of brick warehouse.

Lexington, Ky.—J. M. Gentry purchased site, 50x150 feet, on which to erect tobacco-warehouse addition to cost \$3000.

Lexington, Ky.—Lexington Tobacco Warehouse Co. will erect tobacco warehouse, 260x120 feet, costing about \$30,000; this company lately organized with W. F. Land, president; B. E. Allen, vice-president, and L. M. Land, secretary-treasurer.

Memphis, Tenn.—W. T. Rawleigh Medical Co., Freeport, Ill., reported to erect warehouse in Memphis.

Nashville, Tenn.—Wholesale Merchants' Warehouse Co. will build six additional stores to Cummins Station; expenditure \$200,000.

New Orleans, La.—It is understood plans are being formulated for organization of company capitalized at \$2,500,000 for construction of cotton warehouses, terminal facilities, cotton-handling equipments, etc., in accordance with report of several months ago; Daniel Breck of Selden-Breck Construction Co., St. Louis, Mo., is said to have offered to subscribe one-tenth of capital and to be preparing plans and specifications and other data for contemplated facilities; J. E. Himes, Kansas City, Mo., was previously mentioned as interested in proposition.

Oklahoma City, Okla.—Reed & Mueller will erect three-story warehouse.

St. Augustine, Fla.—Amos W. Corbett awarded contract to E. J. Masters of St. Augustine for erection of warehouse 60x144 feet; will also erect another warehouse, 30x80 feet, and dock on San Sebastian River;

plans by Robinson & Reidy of St. Augustine. (Recently mentioned.)

St. Louis, Mo.—Manufacturers' Railway Co., G. F. Moore, president, has not decided on date of opening bids for erection of building recently reported; plans by company; probable building to be for cold and general storage and less than carload freight delivery and receiving station; fireproof construction; hot-water heat; electric lighting; elevators; cost, etc., not decided.

Washington, Ga.—Dyson Warehouse Co. is being organized with \$20,000 capital stock to erect warehouse; brick; cement floors; automatic sprinklers; capacity 8000 bales; cost when completed about \$12,000.

RAILROAD CONSTRUCTION

RAILWAYS

Andalusia, Ala.—An officer of the Central of Georgia Railway telegraphs the Manufacturers' Record that there is no foundation for the report that the company will build an extension from Andalusia, Ala., to connect with the Illinois Central Railroad; also another extension from Andalusia to Pensacola, and a third extension to Union City, Ala.

Akadelphia, Ark.—John Crawford of Akadelphia has, it is reported, applied for a charter for a logging railroad already in existence, but which may be extended.

Asheville, N. C.—The Asheville & East Tennessee Railway Co., capital \$450,000, has been granted a charter to build its proposed line from Asheville to Hundale, N. C. R. S. Howland of Asheville and others are interested.

Altus, Okla.—President Edward Kennedy of the Altus, Roswell & El Paso Railway is reported as saying that 120 miles are graded ready for track. Rails are on the ground and being laid. Grading is under way between Petersburg and Lockney, Texas, and between Lubbock, Texas, and Roswell, N. M. Of the completed grade 33 miles are in Oklahoma and 87 in Texas. McCulley & Co. of St. Louis have the bridge contract. Some heavy work will be in the Pease River bottom, where in a distance of three miles, beginning at Caprock, the grade will make a big drop.

Artemus, Ky.—The Cumberland & Northern Railway Co. has been incorporated with \$100,000 capital to build from Artemus through Knox, Clay, Owale and Lee counties to Beattyville, Ky., 75 miles. The officers are: President, J. H. Graham; vice-president, S. P. Condon; secretary and treasurer, E. L. Thomas, all of Knoxville, Tenn.

Belme, Ark.—The Belme & Clear Lake Railroad Co. has been chartered with \$3000 capital to build a line four miles long in Clark county. The directors are L. M. Ridelspeyer, J. S. Boger, J. C. Greene, John A. Miller and J. J. Hawkins.

Big Springs, Texas.—W. P. Soash and David Soash of Waterloo, Iowa, will, it is reported, build a railroad from Big Springs to the new town of Soash, 22 miles, and also to Lubbock, Texas.

Birmingham, Ala.—Reported that the Birmingham Southern Railroad, which has just built an extension to No. 12 mine of the Tennessee Coal, Iron & Railroad Co., will be further extended into the Great Warrior coal fields. F. H. Crockard is vice-president and general manager and H. M. Urban is chief engineer at Birmingham, Ala.

Brady, Texas.—The Manufacturers' Record is informed that the Aransas Pass, San Antonio & Great Northern is the name of the railroad company which proposes to build a main line of 350 miles, with a branch from Brady to Eden, Texas, about 50 miles. Col. J. H. Ransom of San Angelo, Texas, and others are interested.

Buckhannon, W. Va.—The Chemical & Helvetica Railroad Co. has been chartered to operate in Upshur and Randolph counties, West Virginia; capital \$25,000. Incorporators are H. G. Young of Charleston, W. Va.; J. M. N. Downes and Eugene Brown of Buckhannon, W. Va.; P. H. Schaffner of Falls Creek, Pa.; William McDole of Selbyville, W. Va., and Charles Mudge of Olean, N. Y. The line will run from near the chemical station on the Baltimore & Ohio Railroad to Helvetica, W. Va. Headquarters at Selbyville.

Burkittsville, Md.—Local citizens are reported interested in a plan to build an electric railway from Brunswick via Horsey's Distillery and Burkittsville to Middletown, Md., about 15 miles, to connect with the Frederick & Middletown Railway. Thomas Hightman was chairman and Chas. T. Maught secretary of a meeting on the subject.

Cambridge, Md.—The McCay Engineering Co. of Baltimore is reported surveying for an electric railway from Cambridge, Md., to Seaford, Del., and from Salisbury, Md., to Claiborne, Md. John H. Burgess, Jr., of Cambridge, Md., and T. Hughlett Henry of Easton, Md., are interested. Clarence Morfit is engineer in charge of survey. An official letter to the Manufacturers' Record says that New York capital will build the line and the preliminary survey is almost finished.

Chattanooga, Tenn.—Charter is reported granted to the Mountain Railway Co. of Pendleton county to build an incline or cable road from St. Elmo to the top of Lookout Mountain; capital \$25,000. The incorporators are Boyd Thompson, C. N. Fox, S. B. Strong, J. S. Fletcher and T. S. Myers.

Cleveland, Tenn.—Mr. J. W. Adams of Chattanooga informs the Manufacturers' Record that the promoters of the proposed electric railway from Cleveland to Chattanooga, Tenn., have had engineers making a preliminary survey, but a company has not yet been formally organized.

Clinton, Okla.—Mr. T. J. Nance, vice-president of the Clinton & Oklahoma Western Railway Co., informs the Manufacturers' Record that the grading contract has been let for 20 miles to Frank L. Adams & Co. of Oklahoma City, Okla. This will connect Clinton & Butler, Okla.; work to begin March 15; date not yet set for equipment bids. Guy V. McClure of Oklahoma City is chief engineer. Line is chartered to build from a point at or near Lehigh, Okla., to Trinidad, Col. The directors are C. C. Godman, president; T. J. Nance, vice-president; C. H. Lamb, secretary; C. R. Strong, general manager, all of Clinton, Okla., and Grant Stafford of Winfield, Kans.

Corinth, Miss.—The City Council, it is reported, has granted a franchise to parties from Canada to build a railroad which will run from Corinth to Shiloh, with two miles in Corinth, by December 31 next. Thomas Sullivan is attorney for the promoters.

Covington, La.—The Crescent City Construction Co. is reported pushing work on the extension of the New Orleans Great Northern Railroad, and will complete the line for operation as far as Ruby, Miss., in about 10 days. Hugh Haddow, Jr., is chief engineer for the contractors.

East Bend, N. C.—The Yadkin River Railway Co., according to a letter to the Manufacturers' Record, has been granted a charter to build either a steam or electric line from East Bend, in Yadkin county, to Donnaha, in Forsyth county. W. A. Martin and others are stockholders.

Eddy, Texas.—An official of the Missouri, Kansas & Texas Railway writes the Manufacturers' Record that it is not yet fully determined to locate terminals at Eddy, Texas.

Franklin, Ga.—The Western of Georgia Railway Co. gives notice it will apply for a charter to build either a steam or electric line about 60 miles long from a point on the Atlanta, Birmingham & Atlantic Railway at or near Aberdeen, in Fayette county, Georgia, west via Newnan, in Coweta county, and Franklin, in Heard county, and thence to the Alabama boundary. Capital \$500,000. The incorporators are John W. Daniel, Hope H. Lane, Ben H. Tompkins, R. B. Mooty, R. M. Lipford, J. W. Ray, Robert G. Crain, James R. Daniel, W. D. Taylor, W. T. Goodson, A. W. Powers, Frank S. Loftin, P. T. McCutchen, Roe Hearn, G. A. Adams, D. B. Whitaker, W. D. Ridley, L. F. Davis of Heard county; W. A. Brannon, B. T. Thompson, I. N. Orr, Sr., Charles C. Parrott, H. C. Arnall, Sr., I. P. Bradley, J. J. Keith, W. C. Wright of Coweta county.

Goodlettsville, Tenn.—The Louisville & Nashville Railroad, it is reported, has received bids to grade about 12 miles of main line revision between Goodlettsville and Madison Station. W. H. Courtenay is chief engineer at Louisville, Ky.

Hattiesburg, Miss.—Reported that the Mississippi Central Railroad is securing rights of way for an extension southeast from Hattiesburg to the Gulf of Mexico. R. K. Smith is vice-president and general manager, and F. T. Myers is chief engineer, at Hattiesburg, Miss.

Higginsville, Mo.—Mark L. Bell, manager of the Higginsville Switch Co., it is reported, proposes to build an electric railway from Lexington to Warrensburg, Mo., 44 miles, and the Higginsville Switch Company's line is to be extended to Lexington.

Hodgenville, Ky.—Reported that the Kentucky Central Traction Railway Co. of Louisville contemplates building an electric railway connecting West Point, Elizabethtown, Howard, Vine Grove and Hodgenville, 40 miles; capital, \$500,000. Not yet decided when contracts will be let. G. J. Lampton

of Louisville is president and general manager.

Honaker, Va.—A. J. Dermont of Clinchport, Va., a railroad contractor, is reported conferring with the promoters of the Lewis Creek Railroad, and construction is expected within 60 days.

Huntsville, Ala.—Ira L. McCord, president of the American Construction Co., contractor for the Nashville & Huntsville Railway, is quoted as saying that he will, within a week or 10 days, arrange for pushing construction.

Jacksonville, Fla.—President J. B. Munson of the St. Johns River Terminal Co., Jacksonville, Fla., writes the Manufacturers' Record confirming the report that some additional trackage will be built, but it will be done by the company's forces.

Jasper, Ala.—Reported that a railroad is contemplated from Jasper to Decatur, Ala., about 100 miles. J. H. Cranford, president of the First National Bank of Jasper is said to be interested.

Kansas City, Mo.—The Kansas City Junction Railroad Co., it is reported, will build a \$2,000,000 railroad terminal on the Kansas side of the Missouri River connecting with Kansas City by a bridge, and also with the Kansas City & Cameron Railroad, which is to be built. George Townsend of Indianapolis, Ind., is reported to represent a syndicate which is interested. Angevine, Cubison & Holt, attorneys, Kansas City, Kan., represent the terminal company.

Kentwood, La.—An official letter to the Manufacturers' Record says there is no truth in the report that the Kentwood & Eastern Railway Co. contemplates an extension to Folsom, La.

Laurinburg, N. C.—The Laurinburg & Southern Railroad Co., it is reported, has elected directors as follows: N. G. Wade of Montbrook, Fla., chairman of the board; John F. McNair of Laurinburg, N. C., president; D. J. Flynn of Jacksonville, Fla., vice-president; A. A. James of Laurinburg, N. C., secretary and treasurer; R. R. Covington, John Blue, D. K. McRae and A. L. James of Laurinburg. Line will run from Laurinburg to Gibson, N. C., as heretofore reported. It is said that financing has been arranged, and as soon as right of way is secured construction will begin. Survey is made.

Macon, Ga.—The Macon, Dublin & Savannah Railway Co. is reported contemplating the construction of a branch from Danville to Cary, Ga., about eight miles. J. T. Wright is general manager and D. B. Dunn is chief engineer at Macon, Ga.

Marshall, Texas.—Reported that the Marshall & East Texas Railroad Co. has amended its charter to build an extension to Newton, Texas, about 125 miles from Marshall. As previously reported, contract is let to John Scott & Sons of St. Louis to build 15 miles south from Marshall immediately.

Mount Vernon, Texas.—An agreement is reported signed between stockholders of the St. Louis, Oklahoma & Texas Railroad Co. and capitalists of New York and New England to build a railroad from Mount Vernon to Sulphur Bluff, 20 miles, and survey will begin immediately. J. M. Fleming is president and M. J. Healy superintendent and general manager.

Morgantown, W. Va.—J. Ami Martin, general manager of the Morgantown & Dunkard Valley Railroad Co., writes the Manufacturers' Record that the proposed bond issue is \$400,000 instead of \$300,000. Tracklaying is expected about April 1, five miles being now graded. The route is from Morgantown, via Granville, Randall, Barker, Cassville, Core, Pentress and Blacksville, to Wadestown, W. Va., 30 miles, with a five-mile branch to Mount Morris, Pa. The company will not build by contract. Mr. Martin is engineer in charge.

Mount Pleasant, Ga.—L. R. Akin of Mount Pleasant is reported building a railroad from Mount Pleasant to Hortense, connecting with the Atlantic Coast Line and the Atlanta, Birmingham & Atlantic Railway, and will continue to build from Hortense to Waycross, Ga., about 60 miles.

Nashville, Ark.—J. W. Bishop, secretary of the Memphis, Paris & Gulf Railroad, is reported as saying that the company is contemplating extending the line from Murfreesboro to Caddo Gap, and a conference has been held with residents of that place. C. C. Henderson is vice-president and general manager at Nashville, Ark.

New Orleans, La.—The New Orleans & Seashore Railroad Co., capital \$2,000,000, has been incorporated to carry out the plans of the New Orleans & Grand Isle Electric Railway Co., and will, it is reported, immediately build an electric railway from Amesville, opposite New Orleans, to Grand Isle, La., 55 miles. The incorporators are James W. Porch, J. H. Mengen, Jr., D. W. Benson, Leo A. Marrero and Lamar C. Quintero of New Orleans. A branch may also be built from the main line to Bayou LaFourche and from Lockport to the Gulf of Mexico. Survey has been made.

Oklahoma City, Okla.—A. N. Munden and William A. Staley of Munden & Staley, attorneys at law, will, it is reported, apply for a franchise for an interurban electric railway to connect Oklahoma City with Guthrie, Chickasha, El Reno and Shawnee, Okla.

Oklahoma City, Okla.—C. Haile, vice-president and traffic manager of the Missouri, Kansas & Texas Railway, is reported as saying that the company will make about \$500,000 worth of improvements in Oklahoma. S. B. Fisher is chief engineer at St. Louis, Mo.

Oklahoma City, Okla.—L. E. Patterson of Oklahoma City, representing the promoters, has, it is reported, applied to the City Council for a franchise in Oklahoma City for the proposed interurban electric railway to El Reno, Okla. The Fred A. Jones Company is the constructing engineers.

Paint Rock, Texas.—Reported that a bonus has been raised to build a railroad from a connection with the Santa Fe to Paint Rock, and a contract has been signed with R. A. Love of Kansas City.

Pryor Creek, Okla.—Reported that construction will start immediately on the Cherokee Belt Line to be built from Skiatook to Pryor Creek, Okla., 45 miles. F. E. Mantell of Kansas City is president of the construction company. Line will run via Claremore and Collinsville.

Quanah, Texas.—Contract is reported let for building the Quanah, Acme & Pacific Railway for 60 miles west of Quanah through Hardeman and Cottle counties, via Paducah, Texas, by Sam Lazarus of St. Louis, president. The Pacific Construction Co. of St. Louis is the chief contractor, which has subtlet the grade, bridges and fences to the Johnston, Son & Allhands Construction Co. of St. Elmo, Ill. Work is to begin immediately. This line is a continuation of the Acme, Red River & Northern Railroad, which it succeeds.

Rockport, Texas.—President Charles G. Johnson of the Rockport & Port Aransas Railway Co., recently chartered to build a line from Rockport to the jetties at Aransas Pass, 11 1/4 miles, writes the Manufacturers' Record that the directors are, including himself, D. R. Scrivner, treasurer; Harry Traylor, secretary; John H. Traylor, vice-president and general manager; Fred Stevens, W. H. Baldwin and Thomas H. Mathis, all of Rockport, Texas. The stockholders include the foregoing and A. L. Bruhl and Ed Peets, Jr., of Rockport, Texas; James H. Allen of St. Louis, Mo., and J. Guinn of San Antonio, Texas. Fred Percival is engineer in charge.

Ruckersville, Ga.—Mayor C. B. McMullan, it is reported, has issued a call for a meeting concerning the proposed electric railway from Iva, S. C., via Ruckersville to Elberton, Ga.

Rusk, Texas.—Reported that a bill has been introduced in the Legislature to appropriate \$150,000 to extend the State Railroad from Rusk, Texas, southward 100 miles toward Houston; convict labor to be used. The State Penitentiary Board has charge of the line. Headquarters at Austin, Texas.

San Antonio, Texas.—Joseph B. Truly of Missoula, Mont., is reported negotiating to build a railroad 100 miles long between San Antonio and Fredericksburg, Texas. He represents the Truly-White Construction Co. of Montana, which, it is said, has the construction contract. The Texas Short Line Railway Co. is the name of the road and Mr. Truly is said to be a director. Preliminary survey is expected to begin immediately. Negotiations in progress for right of way and terminals. John D. Harkman, attorney of San Antonio, is also said to be interested. J. G. Short, president, and H. G. Shaner, chief engineer, both at Monterey, Mexico, have heretofore been mentioned in connection with this proposed road.

Somerset, Ky.—An officer of the Cumberland River & Nashville Railroad Co. is quoted as saying that arrangements are about completed to renew work on the line which is being constructed from Tateville to Monticello, Ky. It is also contemplated to extend to Clarksville, Tenn., a total of more than 200 miles, and to Corbin, Ky., 28 miles. James Denton of Somerset, Ky., is president. F. S. Parrigan of Mill Spring, Ky., is engineer. J. H. Shearer, W. R. Cross, J. L. Shadowan and I. C. Ramsey of Monticello, Ky., are also reported interested.

St. Albans, W. Va.—An official of the Chesapeake & Ohio Railway, in a letter to

the Manufacturers' Record, pronounces "entirely unfounded" the press report that an extension will be made from Peytonia to Jarroles Valley and a branch from Surveyor to Marsh Fork, W. Va.

St. Louis, Mo.—W. J. Gates is reported as saying that arrangements have been made with a syndicate, composed of New York, English and Belgian investors, to finance the proposed subway plan, but that he cannot announce details for several weeks.

St. Marys, Ga.—The directors of the St. Marys & Kingsland Railroad Co. have adopted a resolution that the line be extended from Kingsland northwest to Waycross, Ga., about 50 miles, and thence west about 70 miles to a point on the Georgia Southern & Florida Railway at or near Sparks or Adel, Ga. Capt. L. Johnson of St. Marys is president, and among those interested are L. A. Wilson, A. Sessions, George W. Deen and others of Waycross, Ga. An official letter to the Manufacturers' Record says the directors will meet March 19 to consider plans for financing the extension.

Sumter, S. C.—The Santee River Cypress Lumber Co. of Ferguson, S. C., informs the Manufacturers' Record that its proposed railroad construction is only for the lumber business, and not for the purpose of a common carrier. Francis Beldler is president and treasurer at Chicago, Ill., and M. E. Grey is general manager and M. Baughman Cross is secretary, both at Ferguson, S. C.

Tallulah Falls, Ga.—The Tallulah Falls Railway Co. has been authorized to issue \$1,454,000 of bonds to fund its debt and to make improvements. J. A. Dodson is superintendent at Cornelia, Ga.

Vernon, Texas.—The Attorney-General has approved the incorporation of the Oklahoma, Vernon & Pacific Railway Co. of Vernon, Texas, to build a line from Vernon southwest through Wilbarger, Foard, Cottle, King, Dickens and Crosby counties to Estacado, Texas, 125 miles; capital \$125,000. Incorporators are L. G. Hawkins, W. O. Anderson, B. J. Parker, L. J. Massey, Robert Houssels, T. J. Youngblood, J. D. Hagler, T. H. Shives, J. Ray, J. E. Dolison, G. J. Gibbs, A. C. Hahn, C. P. Smith, J. F. Minarik and B. Houssels, all of Vernon.

Wheeling, W. Va.—An officer of the Baltimore & Ohio Railroad, in a letter to the Manufacturers' Record, denies the press report that it would build a line from Greenlick, on the Mount Pleasant branch, to a point near Bridgeport. He says the company is not interested.

Whittier, N. C.—Robert Gray of Whittier is reported to be surveying for the proposed Appalachian Railroad from Whittier, N. C., to Sevierville, Tenn., about 40 miles.

STREET RAILWAYS

Chattanooga, Tenn.—The Chattanooga Railways Co., it is reported, will shortly begin construction of track on its extension to Rossville and Chickamauga Park. The overhead work is now being erected.

Corpus Christi, Texas.—Two applications for a street-railway franchise are before the City Council, one from Arnim & Arnim of Lavaca county and J. W. Walker of San Angelo, Texas.

Durant, Okla.—Reported that J. R. Miller and E. B. Hinshaw will at the forthcoming city election request that they be voted a franchise for a street railway.

El Reno, Okla.—The street railway company is reported to be building an extension, and Henry Schafer is quoted as saying that gasoline cars will be operated.

Oklmulgee, Okla.—Mrs. Daniel Collins, it is reported, will apply for a street-railway franchise.

Port Arthur, Texas.—The City Council has granted a franchise for a street railway to H. J. Myers and S. A. Price of Dayton, Ohio, and the County Commissioners have also granted them a franchise from Port Arthur to the docks and industries. Construction must begin within six months. Several miles of track are to be built.

Roanoke, Va.—The Roanoke Railway & Electric Co., it is reported, will construct a double track from Walnut street to the Fair Grounds.

The McCabe Machine Co.

Peter A. McCabe, who was with J. J. McCabe for 20 years, has resigned and organized the McCabe Machine Co., to deal in new and second-hand machine tools. He has been elected president and treasurer, while Geo. M. McCabe is secretary, and Thomas M. Kane is one of the company. This new company's offices have been located at 95 Liberty street, New York.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery needed we will make their wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery that is wanted.

Ambulance.—Brandon Sanitarium, Brandon, Miss., wants light-weight ambulance; second-hand may answer purpose.

Bath Fixtures.—H. E. Harman, Box 846, Atlanta, Ga., wants prices on bath fixtures for \$5000 dwelling.

Boiler.—Skyland Hosiery Co., F. S. Wilcox, general manager, Tryon, N. C., wants prices on 100-horse-power five-tube boiler.

Boiler.—City of Dunn, N. C., wants two 100-horse-power boilers, return-tubular, 125 pounds pressure. (See "Electric-lighting Equipment.")

Boiler.—Tabor Lumber & Crate Co., Tabor, N. C., wants 80 to 100-horse-power boiler.

Boiler.—See "Cotton Gin."

Boilers.—R. A. Zoeller, Tarboro, N. C., wants two 100-horse-power 100-pound-pressure and one 90-horse-power 100-pound-pressure boilers.

Boilers.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on boilers for \$70,000 hotel.

Boilers.—Ripley Light, Water & Ice Co., Ripley, Tenn., wants set of boilers.

Bottles, etc.—Southern Distributing Co., Fork, S. C., wants cartons, bottles and tin cans.

Brick Machinery.—J. W. Parker & Co., Troy, Ohio, want brick machinery.

Bridge Construction.—W. C. Vaught, clerk Pike County Board of Supervisors, Magnolia, Miss., will receive bids until April 5 for constructing steel bridge across Bogue Chitto River at Holmesville; Board of Supervisors will also award contract at same date for bridge across Tangipahoa River near W. H. Bennett's place.

Bridge Construction.—See "Lock and Bridge."

Building-material Machinery.—See "Woodworking Machinery."

Brick Machinery.—Ladd Fire Brick Works, Fort Payne, Ala., wants second-hand dry press and dry pan.

Bridge Construction.—Board of County Commissioners, Tulsa, Okla., will probably advertise for bids about April 1 for construction of \$40,000 steel bridge across Arkansas River.

Bronze Grilles.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on bronze grilles.

Buckles, etc.—Black-Christie Manufacturing Co., 707 Ellis St., Augusta, Ga., wants addresses of manufacturers of buckles and loops for overall suspenders.

Building Materials.—W. E. Nelson, Shupert Bldg., San Angelo, Texas, wants catalogues of building materials and other products interesting to architects.

Cannmaking Machinery and Material.—E. W. Halstead, secretary Herradura Fruit and Vegetable Growers' Association, Herradura, Cuba, wants to correspond with manufacturers of cannmaking machinery.

Cannmaking Machinery.—Becker Can Co., Ltd., Box 998, New Orleans, La., wants proposals on wet or packers' line and lard-pail equipment; also on wire-ball making machine which straightens the wire, forms ball, cuts wire and produces hook.

Cannery.—J. W. Parker & Co., Troy, Ohio, want cannning machinery.

Canning Machinery.—W. A. H. Loveland, manager, Loveland Grove, Miami, Fla., wants prices on equipment for large fruit-packing house.

Cars.—The Hobbs-Ives Equipment & Machinery Co., Seaboard Bank Bldg., Norfolk, Va., in market for two standard-gauge logging cars; second-hand.

Cars.—Sewell Lumber Co., Parkersburg, W. Va., in market for 36-inch gauge logging cars.

Cannery.—E. W. Halstead, secretary Herradura Fruit and Vegetable Growers' Association, Herradura, Cuba, wants to correspond with manufacturers of cannmaking machinery.

dura Fruit and Vegetable Growers' Association, Herradura, Cuba, wants to correspond with manufacturers of cannning machinery.

Cleat Machines.—C. W. Hunter, Bessemer, Ala., wants second-hand cleat machine; give full particulars.

Condenser.—See "Engine, etc."

Corn-mill Machinery.—King Bo & Co., Delhi, La., want prices on machinery for small cornmeal mill.

Cotton Gin.—Chas. Fehliss & Co., Reedville, Texas, will open proposals April 5 on gin outfit, including engine and boiler.

Crayon Machinery.—Teachers' Co-operative Co., 618 First National Bank Bldg., Nashville, Tenn., wants machinery for manufacturing crayons from talcum powder.

Cotton Machinery.—Hope Mills Manufacturing Co., Hope Mills, N. C., wants several second-hand Whiting long-chain quilling machines; 378 ends; full details in first letter.

Drain-tile Machinery.—J. W. Parker & Co., Troy, Ohio, want drain-tile machinery.

Dredging.—Baltimore (Md.) Board of Awards will receive bids until March 24 for dredging; certified check \$1000; for specifications apply to office of Harbor Board; O. F. Lackey, Harbor Engineer.

Drugs.—Southern Distributing Co., Fork, S. C., wants drugs.

Electric-alarm Fixtures, etc.—Patent Monarch Alarm Co., F. W. Bost, secretary, China Grove, N. C., wants batteries, magnets, wire push buttons, small electric globes, etc.

Electric Chandellers.—Wallace J. Frazer, Knoxville, Tenn., wants prices on five electric-light chandellers.

Electric Conduits and Wiring.—See "Heating Apparatus."

Electric Lighting.—City of Portsmouth, Va., will receive written bids until April 13 for purchase of franchise and contracts to light its streets, public buildings, residences, business houses, etc., and for furnishing electric power where required; certified check for \$5000; specifications for bids may be obtained on application to L. P. Slater, City Clerk.

Electric-lighting Equipment.—See "Water and Lighting Equipment."

Electric-lighting Equipment.—City of Dunn, N. C., wants one 100-horse-power engine, 125 pounds pressure, 250 to 300 speed; two 100-horse-power boilers, return-tubular, 125 pounds pressure; one dynamo, 75 to 90 K. W., single-phase, 60-cycle, 1050 and 2300 voltage, complete with exciter; offers of second-hand machinery in good condition invited. Address H. B. Charles, Superintendent of Lights, Dunn, N. C.

Electric Motor.—C. W. Hunter, Bessemer, Ala., wants A. C. motor.

Dumbwaiters.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on hotel dumbwaiters. (See "Elevators.")

Electrical Generator.—Pritchett Machinery Co., 381 Arcade Bldg., Greensboro, N. C., in market for 75 to 100-kilowatt generator.

Elevators.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on hotel elevators. (See "Dumbwaiters.")

Electric-light Plant.—Sewell Lumber Co., Parkersburg, W. Va., in market for electric-light plant.

Electric Lighting.—See "Heating Apparatus."

Engine.—City of Dunn, N. C., wants one 100-horse-power engine, 125 pounds pressure, 250 to 300 speed. Address H. B. Charles, Superintendent of Lights, Dunn. (See "Electric-lighting Equipment.")

Engine.—Ripley Light, Water & Ice Co., Ripley, Tenn., wants 125-horse-power Corliss engine.

Engine.—See "Cotton Gin."

Engine, etc.—Sealed proposals will be received at office of City Secretary, Greenville, Texas, until April 6 for delivery, erection and installation of compound condensing pumping engine, surface condenser and such other appliances as may be necessary. Forms of proposals, copies of specifications and instructions to contractors can be obtained from City Secretary at Greenville or from J. W. Maxcy Company, consulting engineer, Houston, Texas; certified check, \$300. Address W. A. Frazer, City Clerk, or J. W. Maxcy Company, Houston, Texas.

Engines.—Skyland Hosiery Co., F. S. Wilcox, general manager, Tryon, N. C., wants prices on 80 to 100 horse-power Corliss engine; also 80 to 100 horse-power automatic engine.

Engines.—Tabor Lumber & Crate Co., Tabor, N. C., wants one 50 and one 30-horse-power engine.

Engines.—R. A. Zoeller, Tarboro, N. C., wants 12x36 and 16x36 or 42 Corliss engine.

Engines.—Pritchett Machinery Co., Greensboro, N. C., in market for 50-horse-power second-hand gasoline engine and Corliss engine of about 125-horse-power.

Fire Protection.—See "Water-works."

Furniture.—See "Interior Work, etc."

Gasoline Engine.—Pritchett Machinery Co., 381 Arcade Bldg., Greensboro, N. C., in market for 50-horse-power second-hand gasoline engine.

Gas Plants.—First National Bank, S. J. Harvey, cashier, Milton, Fla., wants prices from manufacturers on small gas plants suitable for \$15,000 bank building.

Gates.—U. S. Engineer Office, 920 17th St. N. W., Washington, D. C. Proposals for furnishing and installing one set lock gates, with operating mechanism, and eight curtain gates, with operating mechanism, in bridge at Inlet to tidal basin, Potomac Park, Washington, D. C., will be received until April 12; information on application; Jay J. Morrow, Major, Engineers.

Gates.—U. S. Engineer Office, Nashville, Tenn.—Bids will be received until April 19 for constructing and erecting three sets of steel lock gates for Riverton Lock, Tennessee River, Alabama; information on application; William W. Harts, Major, Engineers.

Glove Machinery.—Walter Miller, 107 South Macomb Ave., El Reno, Okla., wants cutting dies, cutting tables, etc., for manufacturing cotton gloves.

Glove Machinery.—McAlester Glove Manufacturing Co., North Main St., North McAlester, Okla., wants canvas glove-cutting machinery.

Heating Apparatus.—Bids will be opened April 9 for heating, plumbing and electric lighting for addition to Post Exchange at Fort Monroe, Va.; Ernest R. Tilton, Captain and Constructing Quartermaster. (See "Government and State Buildings.")

Heating Apparatus.—Bids will be opened April 15 for heating apparatus, electric conduits and wiring, plumbing and gaspiping of U. S. postoffice to be erected at Fayetteville, N. C.; James Knox Taylor, Supervising Architect, Treasury Department, Washington, D. C. (See "Government and State Buildings.")

Heating Plants.—Wise Granite Co., Wise, N. C., wants prices on heating plants for two \$40,000 granite dwellings.

Heating Plant.—Rev. J. D. Redd, London, Ky., wants prices on hot-air, hot-water and steam-heating plants for church.

Ice Plant.—Ripley Light, Water & Ice Co., Ripley, Tenn., wants 15-ton ice plant.

Insulation Material.—W. E. Selbert, care of Business Men's League, Luray, Va., wants refrigerator insulation material.

Interior Finish.—Wise Granite Co., Wise, N. C., wants prices on interior finish for two \$40,000 granite dwellings.

Interior Work, etc.—Board of Public Works, H. F. Van Dusen, chairman, Chattanooga, Tenn., will receive bids until April 6 for interior decoration and furniture for new city hall; plans and specifications at office of R. H. Hunt, architect, James Bldg.; certified check, \$100.

Kitchen Range, etc.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on kitchen range and warmers for hotel.

Knitting Machinery.—W. L. Cantwell, Wilson, N. C., wants data and prices on machinery to knit cotton underwear.

Laundry Equipment.—Keenan & Weiss, 417 Hibernia Bldg., New Orleans, La., want prices on washing machines for hotel.

Levee Construction.—Board of Commissioners Caddo Levee District, 518 Spring St., Shreveport, La., will receive bids until March 24 for construction on right bank of Red River, Coushatta levee; contents, 22,000 cubic yards; deposit, \$100, and Engle Bend levee, contents, 45,000 cubic yards; deposit, \$300. Other information as to location, character of work, blank proposal forms, etc., obtained on application to Board of State Engineers, New Orleans, La., or W. V. Robson, Robson, La., president of Caddo Levee Board, or S. N. Kerley, secretary, Shreveport.

Lighting Fixtures, etc.—H. E. Harman, Box 846, Atlanta, Ga., wants prices on lighting fixtures for \$5000 dwelling.

Lock and Bridge.—Office of Commissioners Chatham County and Ex-Officio Judges, Savannah, Ga. Sealed proposals will be received until May 8 for erecting reinforced concrete lock and bridge, Buckhalter Canal outlet, this county; specifications furnished by above office; certified check in sum equal to 5 per cent. of amount of bid; G. Reuben Butler, Clerk Chatham County Commissioners.

Locomotive.—Sewell Lumber Co., Parkersburg, W. Va., in market for 25 to 30-ton geared locomotive.

Log Loader.—Sewell Lumber Co., Parkersburg, W. Va., in market for steam log loader.

Logging Cars.—See "Cars."

Machine Tools.—H. E. Bumby, Third Ave. and 21st St., Bessemer, Ala., wants 20 to 24 inch modern crank shaper, 12-inch by 10-foot bed lathe, and pipe-threading machine up to 6-inch.

Mantels.—H. E. Harman, Box 846, Atlanta, Ga., wants prices on mantels.

Marble.—American Tile & Cement Co., Monument and Alsop Sts., Baltimore, Md., in market for Georgia and Vermont marble.

Marble and Limestone Works.—Office of Building for National Museum, Library of Congress, Washington, D. C. Sealed proposals for furnishing, delivering and setting in place complete marble wall bases, plinths, floor tiling, etc., and limestone screens for south pavilion of new building for National Museum will be received until March 23; specifications, general instructions and conditions and other information furnished on application to above office; Bernard R. Green, superintendent of construction.

Merry-Go-Round.—Etheridge Bros., Evergreen, Ala., want to buy or lease merry-go-round.

Metal Ceiling, etc.—M. E. Campbell, Stanton, Texas, wants prices on metal ceiling and awnings.

Mosaic Floor.—Leslie & Johnson, Lake City, Fla., want prices on 300 feet mosaic floor.

Paving.—Commissioners of Improvement District No. 141 (Louisiana street from 2d to 9th and cross streets between Main and Center), Little Rock, Ark., will receive bids until April 1 for paving with sheet asphalt on concrete base streets within district; plans, profiles and specifications at office of City Engineer; certified check, \$1000; bids to be filed with E. A. Kingsley, engineer for district; A. Brizzolara, secretary.

Paving.—City of Gainesville, Ga., will consider bids on material for and construction of paving of five streets; about five blocks each. Address R. E. Strickland, chairman Street Committee.

Photographic Literature.—The Dixie Company wants photographic literature. Address Edw. Young Clarke, 12 South Pryor St., Atlanta, Ga.

Pipe and Fittings, etc.—Bids will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until April 5 for furnishing pipe and fittings, sanitary fixtures, valves, cocks, oil pumps, etc. Blanks and general information relating to Circular No. 498 may be obtained at above office or offices of assistant purchasing agents, 24 State street, New York; Custom-house, New Orleans; 1086 North Point street, San Francisco, Cal.; also from U. S. Engineer office in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile, Galveston and Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Pumps.—See "Water and Lighting Equipment."

Pipe Covering.—R. A. Zoeller, Tarboro, N. C., wants to correspond with pipe-covering manufacturers with view to representation.

Piping.—Edwards, Roney & Co., Providence, Ky., want prices on 18-inch, 24-inch, 30-inch, 36-inch and 48-inch sewer pipe, delivered in Providence about middle of year; give weight per two-foot section.

Piping.—C. C. Beal, Norfolk, Va., wants to correspond relative to representing manufacturers of and dealers in sewer pipe. Give Norfolk freight rates.

Plumbing and Gasiping.—See "Heating Apparatus."

Plumbing and Supplies.—Wallace J. Frazer, Knoxville, Tenn., wants prices on five-foot bathtub, lead pipe; kitchen sink; 30-gallon galvanized boiler; two closets complete, and stationary washstand.

Plumbing.—See "Heating Apparatus."

Plumbing.—Wise Granite Co., Wise, N. C., wants prices on plumbing for two \$40,000 granite dwellings.

Pumping Engine.—See "Engine, etc."

Rails, etc.—Clarence Cosby, Richmond, Va., in market for 35 to 40 tons of 56 to 60-pound relaying rails, with splice bars.

Rails, etc.—Edwards, Roney & Co., Providence, Ky., want quotations on new and re-

laying 60-pound steel rails, 30-foot section; splices, bolts, nuts, frogs, switchstands and spikes; to be delivered about July 1.

Railway Equipment.—See "Cars" and "Locomotive."

Railway Equipment.—See "Cars."

Refrigerator Doors.—W. E. Seibert, care of Business Men's League, Luray, Va., wants prices on refrigerator doors.

Road Grading.—A. J. Driver, Jr., chairman Court of Chambers County Commissioners, Lafayette, Ala., will receive bids until April 5 for grading West Point public road between Lafayette and Lanett, Ala. Specifications may be obtained and plans examined at office of A. J. Driver, Jr.

Road Machinery and Material.—McCay Engineering Co., 9 East Lexington St., Baltimore, Md., will want tools and material for construction of road from Kensington to Bradley lane, Chevy Chase, Md.; about 20,000 yards grading and 10,000 tons broken stone.

Road Roller.—Bids addressed to Street Committee (E. B. Hawke and Samuel T. Montague, chairmen), Portsmouth, Va., will receive bids at office of City Clerk until March 23 for 10-ton steam road roller, delivered, started and operated for 10 days on streets of city; full and complete specifications of roller and certified check for \$1000, payable to George A. Tabb, City Treasurer, to accompany each proposal.

Roofing.—T. J. Shicklin, Lawrenceburg, Tenn., wants steel roofing.

Roofing.—M. E. Campbell, Stanton, Texas, wants prices on galvanized-iron roofing.

Sawmill.—Sewell Lumber Co., Parkersburg, W. Va., in market for heavy eight-foot land mill complete, including boilers and engine.

Scrap Iron, etc.—J. W. Bone, Denton, Texas, wants to correspond with dealers in scrap iron, brass, copper and rubber; car-load lots.

Sewer Construction.—See "Water-works."

Sewer Construction.—Syndicate Land Co., Waycross, Ga., will award contract for sewer construction; cost \$2500; at Dublin, Ga.

Sewer Construction.—Baltimore (Md.) Board of Awards will receive bids at office of J. Sewell Thomas, City Register, City Hall, until April 7 for construction of sanitary sewers, Contracts Nos. 38 and 39, as shown on plans on file in office of Calvin W. Hendrick, chief engineer of Sewerage Commission; specifications and plans can be obtained upon application at office of Sewerage Commission, Room 904 American Bldg., Baltimore; charge of \$5 will be made for each specification with blueprints; certified checks, \$2500 and \$3000, respectively. Approximate quantities: Contract No. 38, 16,200 linear feet 6-inch house connections, 29,500 linear feet 8-inch pipe sewer and 2300 linear feet 10 to 15-inch pipe sewer; Contract No. 29, 13,500 linear feet 6-inch house connections, 19,600 linear feet 8-inch pipe sewer and 4200 linear feet 10 to 20-inch pipe sewer; Peter Leary, Jr., chairman, and Harry W. Rodgers, secretary, Sewerage Commission.

Sewer Construction.—Sealed bids will be received by H. C. Bishop, City Secretary, Hubbard, Texas, until March 22 for construction of sewer system; cost \$10,000; certified check for \$250; plans, specifications and bidding sheets at office of H. C. Bishop, City Secretary, Hubbard, or at office of Wm. M. Elliott, engineer, Corsicana, Texas.

Sewer Construction.—Board of Street Commissioners, Columbia, S. C., will receive bids until March 22 for construction of about 5753 feet of pipe sewers from 8 to 12 inches in Elmwood Park Extension of city. Plans and specifications on file in office of A. W. Edens, City Engineer, City Hall; certified check \$1000.

Slot Machines.—Phoebe Candy Co., Phoenix, Va., wants names and addresses of manufacturers of cigar slot machines.

Sprinkler.—Skyland Hosiery Co., F. S. Wilcox, general manager, Tryon, N. C., will need bids on automatic sprinkler equipment.

Starch Machinery.—E. W. Halstead, secretary, Herradura Fruit and Vegetable Growers' Association, Herradura, Cuba, wants to correspond with manufacturers of (cassava) starchmaking machinery.

Stone.—See "Road Machinery and Material."

Store Fronts.—M. E. Campbell, Stanton, Texas, wants prices on store fronts.

Stoves.—See "Kitchen Range, etc."

Sugar Machinery.—H. Bevis & Co., P. O. Box 29, Cawnpore, India, wants catalogues and prices on machinery for sugar manufacture.

Tiling.—See "Mosaic Floor."

Tin Cans.—See "Bottles, etc."

Timplate.—E. W. Halstead, secretary, Her-

radura Fruit and Vegetable Growers' Association, Herradura, Cuba, wants to correspond with dealers in template for canmaking.

Water and Lighting Equipment.—Bids will be received at office of F. N. Newhouse, town clerk, Prague, Okla., until March 23 for furnishing material for construction of system of water-works and electric-light plant, as follows: Tower and tank, pressure pumps and accessories; motor-driven deep well pumps, including motors, boilers, steel stack, feed pumps, heater and piping, automatic steam engine, alternator, switchboard, arc lights and regulator, galvanized pipe, cast-iron pipe, valves, hydrants and boxes, transmission lines fittings. Separate bids will be received. All material to be in accordance with specifications, on file in office of Mr. Newhouse at Prague, and of Michel-Cooke Engineering & Construction Co., supervising engineers, Joplin, Mo. Bidders desiring copies of plans and specifications to apply to engineers and submit check for \$2.

Water-works.—H. E. Harman, Box 846, Atlanta, Ga., wants isolated water supply for \$5000 residence.

Water-works.—City of Madisonville, Ky., will sell water-works franchise June 1; population 7000; copy of franchise may be obtained from James L. Brown, City Clerk.

Water-works.—Geo. R. Burke, secretary Business League, Markham, Texas, is receiving prices on material for system of fire protection, including artesian well, tank, tower, about 1000 feet pipe, hose and reel cart.

Water-works.—Office of Constructing Quartermaster, Washington, Takoma Substation, D. C. Sealed proposals will be received until March 30 for extension of water and sewer mains at Fort Washington, Maryland; plans, specifications, blank proposals and further information furnished on applica-

tion. Address H. L. Pettus, Constructing Quartermaster.

Water-works.—Edward Sheegog, Mayor, Lindsay, Okla., will receive bids until March 31 for purchase by city of machinery required for construction of water-works system. Specifications can be obtained from O'Neill Engineering Co., Dallas, Texas.

Water Meters and Meter Boxes.—Sewerage and Water Board (F. S. Shields, secretary, and George G. Earl, general superintendent), New Orleans, La., will receive bids until April 6 for furnishing water meters and meter boxes. Specifications with blank proposal forms can be obtained on application at office of board, 602 Carondelet street.

Well Drilling.—Bids will be received at office of F. M. Newhouse, Clerk, Prague, Okla., until March 23 for drilling and casing well about 450 feet deep; specifications on file at office of Mr. Newhouse; bidders desiring copies of specifications apply to Michel-Cooke Engineering & Construction Co., Joplin, Mo.

Woodworking Machinery.—J. L. Tallaferro, 2015 East Broad St., Richmond, Va., wants machine for making corner and plinth blocks.

Woodworking Machinery.—Tabor Lumber & Crate Co., Tabor, N. C., wants veneering machine, lathe, lathe saw, resaw, shaper and molder, gang saw and cut-off saw.

Woodworking Machinery.—A. B. C., care of Manufacturers' Record, wants second-hand four-sided setting-up machine; single or double-lock corner machine; turning machine; new No. 186 Fay & Egan gang resaw outfit, complete; 24" Whitney double surface sectional tools; No. 6 nailer or three-saw edger.

Woodworking Machinery.—Hugh J. Duffy, Rogers Supply Co., 3 King St. east, Toronto, Canada, interested in machinery used in building trades.

INDUSTRIAL NEWS OF INTEREST

Wants Furniture-Plant Manager.

C. B. Gillespie of Houston, Texas, telegraphs the Manufacturers' Record that he wants to communicate with a man prepared to take charge of a furniture plant.

W. E. Nelson, Architect.

W. E. Nelson, architect, has established offices in the Shupert Building, San Angelo, Texas, and requests manufacturers to send him catalogues of interest to architects.

Spanish Catalogues Printed.

The Guessaz & Perlet Company, 312 Navarro St., San Antonio, Texas, conducts a modern printing plant and is prepared to translate catalogues into Spanish, print them and mail them from the press.

W. L. Craven at Charlotte, N. C.

W. L. Craven announces that he is now agent for the York (Pa.) Bridge Co., with offices at 819 Realty Building, Charlotte, N. C. He solicits inquiries and personal visits relative to any class of bridge construction contemplated.

Steamboat for Sale.

Because of a court order the river steamboat West River will be offered at public sale on March 29 at foot of Dock street, Annapolis, Md. For particulars address Ridgely P. Melvin, Annapolis, or W. Thomas Kemp, 1407 Continental Bldg., Baltimore, Md.

The Illinois Supply Co.

The Illinois Supply Co., Walter P. Grath, president, maker of dry-press-brick machinery and roofing-tile machinery, and engineer and contractor for complete brick plants, has moved its offices to the Century Building, St. Louis, Mo.

Information About Oxford, N. C.

Manufacturers, investors and home-seekers are invited to address the Granville Real Estate & Trust Co. of Oxford, N. C., for information regarding that city and vicinity. Data will be furnished as to Oxford's advantages for manufacturing and agricultural enterprises, etc.

To Engineer Revolution Bleachery.

The Revolution Cotton Mill of Greensboro has engaged W. H. Smead to attend to all the engineering in connection with the construction of its bleachery. All machinery has been purchased and the erection of buildings has begun. Mr. Smead's offices are at 302 McDowell Building, Greensboro, N. C.

Farms and Industries Offered.

There are many opportunities for investment in and development of Southern farm and industrial properties. W. E. Garth, City Hall Bldg., Bowling Green, Ky., offers

interesting propositions of that kind. His list now includes Georgia farms, turpentine plants, cotton gins, fruit and vegetable canneries, etc.

Enlarging Its Plant.

The Massachusetts Chemical Co. is making further additions to its plant at Walpole, Mass. Its present addition is to accommodate increase in the trade of the molded-rubber goods, particularly in the electrical line, has assumed large proportions. Bushings, pump valves, rubber mats, car steps, etc., are some of the specialties of this department of the company.

Established Brick Plant Offered.

An established brick and tile manufacturing plant, with 16 acres of clay lands, will be offered for sale to the highest bidder on April 1. This property is located at Lima, where it is claimed 20,000,000 bricks will be demanded during the next two years, with a continued demand for tiling. For information address Wm. F. Numan, 311 Masonic Bldg., Lima, Ohio.

Southern Steel Co. Sale.

The trustees in bankruptcy of the Southern Steel Co. will offer all the properties of the corporation for sale on April 12 at the courthouse in Birmingham, Ala. These properties include coal mines, iron mines, steel plant at Gadsden, rod and iron plant at Ensley, etc., and the capital stock of the Georgia Steel Co., the Chattanooga Iron & Steel Co. and the Lacey-Buek Iron Co. For full details address W. H. Hasinger, chairman of trustees, Brown-Marys Bldg., Birmingham, Ala.

Contract for Courthouse Furnishings

The contract for cork flooring, seating, filing devices, bookcases, desks, chairs, tables, judge's stand, jury box, railing, witness box and complete furnishings for the new Upson county courthouse at Thomaston, Ga., has been awarded to the Fielder & Allen Company of Atlanta, Ga. The company has completed its contract to furnish the Grady county courthouse at Cairo, Ga. This included the interior furniture and fixtures, seating, cork flooring, desks, chairs, tables, filing devices, bookcases, jury boxes, judge's stand, bar railing, etc.

Blow Pipe Contracts at New Orleans.

The blowpipe department of the New Orleans (La.) Roofing and Metal Works is continually receiving orders for the company's cycloidal slow-speed low-power blowpipe systems, which are giving satisfaction to many users throughout the South. Recent contracts include installations for J. C. Hanahan & Sons, Gordo, Ala.; Bay Springs

(Miss.) Lumber Co., Lumberman's Manufacturing Co., Hattiesburg, Miss.; Kimberly-Wing Company, Cedars, Miss., and Palmetto Lumber Co., Oakhurst, Texas. C. H. Keeney, manager of the blowpipe department of the New Orleans company, states that indications are for a large trade this year.

"Angle Compound" Engines.

The space-saving qualities of the "Angle Compound" engine recently introduced by the American Engine Co., Bound Brook, N. J., is illustrated by the fact that one of these engines of a capacity of 500 horsepower was recently selected to drive a centrifugal circulating pump in connection with the condenser outfit of the Interborough Rapid Transit Co. at the 59th-street and North River power-house, New York. The American Engine Co. also reports a sale of an "Angle Compound" engine to the United States Government for the Coast Artillery School at Fort Monroe, to be installed with two American Ball duplex compound engines.

The L. S. Montgomery Company.

One of the new incorporations at Atlanta is the L. S. Montgomery Company, which has organized with L. S. Montgomery president and general manager and Paul Dev. Chaudron secretary-treasurer. This company will act as a manufacturers' distributing agency and job specialties, dealing only with electrical products. It has a complete stock of the Federal Electric Co. tungsten clusters, fixtures and specialties, the Cutler-Hammer Manufacturing Co.'s push-button specialties, and the Robbins & Myers Company's Standard fans. The company is capitalized at \$50,000, and has its offices at 826 Empire Building, Atlanta, Ga.

Crook, Kries & Co.

Crook, Kries & Co., 227-231 West Saratoga St., Baltimore, Md., are heating and ventilating engineers and contractors, manufacturers and machinists. They make a specialty of engines, boilers, pumps, high-pressure piping and steam and hot-water heating. The company has been very successful in its various lines of business and has installed many extensive heating and ventilating systems in Maryland and the South. Some of the large buildings equipped with Crook, Kries & Co. systems are St. Joseph's House of Industry, Young Men's Christian Association building, both in Baltimore; St. Rose's Industrial School, Washington, D. C., and Maryland Tuberculosis Hospital at Sabillasville.

Machinery for Clayworking Plant.

Among the developments now in progress in Missouri is the utilization of the clay on 1720 acres of land near Versailles. This is in charge of the Ouachita Coal & Clay Products Co., which is building a plant to have a daily output of 50,000 fire bricks and other fire-clay products. The plant was designed by A. A. Kentner and R. E. Bradford, president of the company, and will be arranged for enlarging to any desired capacity at a minimum expense. The clay-working machinery has been purchased from the Bonnot Company, Canton, Ohio, and two 150-horse-power boilers, one 250-horse-power engine and one 50-horse-power engine from the Atlas Engine Works, Indianapolis, Ind. The Ouachita company has its offices at 606 Century Building, St. Louis, Mo.

Recent Link-Belt Orders.

Many orders have been received recently by the Link-Belt Co. of Nicetown, Philadelphia, Pa. They included coal handling machinery for iron works, banana carrier, fueling-barge equipments, automatic barrel elevator and mud conveyor, in Cuba; belt conveyor for lumber plant, elevators, conveyors and other machinery for handling phosphate rock, in Florida; coal-handling equipment for large textile mill in Massachusetts; coal conveyor in New Jersey; freight carrier for paper mill, two bucket carriers for crushed coke, and elevating and conveying machinery for refuse, in New York; coal-handling machinery in Nova Scotia; coal elevator and conveyor, two chip-handling conveyors, elevator for crushed stone and car-haul machinery, in Pennsylvania; elevators, conveyors and miscellaneous machinery for handling phosphate rock, in Virginia.

The Lytton Steam Trap.

People concerned in steam traps will find of interest the following letter from the Franklin (Va.) Peanut Co.: "Lytton Manufacturing Corporation, Franklin, Va.—After having given the steam trap installed by you at our plant a thorough test, having been in use about 60 days, we take pleasure in informing you that we can unreservedly say that it more than fulfills every claim made by you for it. It keeps the cylinder free of

water; makes starting and stopping of engine much easier; relieves strain on boilers and prevents jumping, as was frequently the case before installation; saves water and fuel by making steaming easier; protects cylinder head, and causes engine to run like a new one. We estimate that our saving in cylinder oil is at least 50 per cent, and we are so well pleased with the service that we would not be without it for many times its cost."

Miracle Prize Contest.

At the recent cement show in Chicago the Miracle Pressed Stone Co., manufacturer of concrete machinery, Minneapolis, Minn., exhibited and awarded prizes for the best specimens of products made on molds or machines of its manufacture. The specimens were divided into three classes—concrete blocks, concrete tile and sewer pipe, and ornamental stone, such as columns, balls, balusters, lawn vases and ornamental brick, and \$200 in cash was allotted to each class, to be divided in graduated sums among the five best specimens. Over 90 specimens were submitted, coming from all parts of the country, and they attracted much interest. Those passing on the awards were E. W. Boyton, Atlas Portland Cement Co.; C. W. Boyton, Universal Portland Cement Co., and E. E. Fillion, Lehigh Portland Cement Co. The contest served the double purpose of urging users of Miracle machinery to their best efforts and evidencing the quality of products from this machinery.

Indestructible Metal Articles.

The U. S. Indestructible Gasket Co., 14 South William St., New York, will remove to 50 Church street on April 1. This company manufactures gaskets, washers, valve discs, diaphragms, of Ames alloy, copper, lead, "Indestructible" etc. It says "its indestructible metal will not melt or even scale at a temperature of 2500 degrees F., or rust, discolor or corrode like iron, brass, copper, zinc or German silver. It can be spun, drawn, soldered and electrically welded. It finishes, like nickel-plate, by simply buffing, but, being solid, never wears off. Being lighter than copper, and having a tensile strength of 100,000 pounds, and resisting the action of air, gas, fumes, steam, 40 per cent. sulphuric acid, salts, chemicals, oils, alkalies, ammonia, bad mine water and other disintegrating elements, it is ideal for propeller blades, ship bottoms and marine hardware, gear wheels, fine machine parts, motors, airships, instruments of precision, screens, tanks, marine and mine pump and valve rods; scale, lock and gun parts; washers, gaskets, discs, diaphragms, time and identification checks, fireproofing and architectural uses, etc. Its sanitary qualities commend itself to manufacturers of plumbing, cooking, toilet, household and nickel-plated articles. This strong, tough, heat-resisting and anti-corrosive metal is vastly superior to rubber, asbestos, bronze, copper or steel for gaskets especially for saturated or superheated steam."

TRADE LITERATURE.

A Big Southern Plant.

One of the important manufacturing enterprises of Chattanooga, Tenn., is comprised in the plant of the Chattanooga Sewer Pipe & Fire Brick Co. This company is mailing to its friends a folder illustrating in colors its three clayworking plants, where it manufactures sewer pipe, fire brick, fireproofing, flue pipe, flue lining, wall coping, farm drain tile and other clay products.

Fort Wayne Fan Motors.

Fort Wayne Bulletin No. 1114 is timely literature, as it illustrates and describes the Fort Wayne electric fan motors, which will soon be in large demand throughout the country. Dealers in electric fans and people who are desirous of being informed regarding the latest improvements in fan motors are invited to investigate the Fort Wayne offerings. Address the Fort Wayne Electric Works, Fort Wayne, Ind.

The Joke Was on Casey.

Casey is a gentleman who has obtained considerable fame, and he was recently the victim of a joke which will interest people who are concerned with improved roofing materials. The story may be found in the March number of the Cortright Metal Shingle Advocate, a publication which presents timely data and photographic views of metal shingles and accompanying parts for roofing purposes. Address the Cortright Metal Roofing Co., 50 North 23d St., Philadelphia, Pa.

Buckeye Tungsten Lamps.

One of the problems in modern business is the illumination of buildings of all kinds,

and in most cases electricity is used. To get the most of the best light for the least money, to arrange these lights so that they will best serve the requirements of the user are among the problems arising. In the solution of such problems the Buckeye Electric Co. of Cleveland, Ohio, has become well known and is issuing an illustrated folder calling attention to its facilities as an illuminating engineer, and especially to the merits of its Buckeye tungsten lamps.

Referring to Elastic Paints.

Current paint literature includes a pamphlet which presents some interesting facts regarding the elastic paints manufactured by the Dallman & Cooper Supply Co. of Fond du Lac, Wis. The company's paints include elastic roof paint, structural iron paint, smokestack enamel, boat enamel, boiler paint, pipe enamel, diamond black paint, etc., which are claimed to be proof against weather or rust, absolutely non-porous, will not evaporate after once set, and will not crack, peel, blister or scale. The pamphlet presents a number of letters from industrial enterprises in different parts of the country which have successfully used the Dallman & Cooper elastic paints.

A Man and a Telephone.

A unique booklet now being distributed is entitled "Satisfaction—A Story With a Moral." This publication presents six photographic views of President Taft at the telephone; he calls the exchange, hears the news of his election, and thereupon the characteristic smile for which he has become noted is emphasized. The booklet also presents a few timely quotations from the President's writings. It is published by the Western Electric Co., 463 West St., New York, manufacturer of the Western Electric telephone, which is used throughout the world. The company has an extensive general electric manufacturing plant at Hawthorne, near Chicago, Ill.

FINANCIAL NEWS

The MANUFACTURERS' RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS' RECORD,

Baltimore, Md., March 17.

The Baltimore stock market has been active during the past week, but with some shading off in prices toward the end of the period. In the trading United Railways common sold at 11 1/4; do. trust certificates, 11 1/4 to 11 1/2; the incomes from 52 1/2 to 53 1/2; the funding 5s at 80 1/4 and 80; do. scrip, 80 1/2 to 81; United 4s, 87 to 87 1/4; United Light & Power 4 1/4s, 95 1/4 to 95 1/2; Consolidated Gas, Electric Light & Power preferred, 76; do. 4 1/2s, 84 1/2 to 84 1/2; Consolidated Gas 6s, 102; do. 5s, 111 1/2; do. 4 1/2s, 93 1/2; Seaboard Company common, 12%; Seaboard 4s, 64% to 65 1/2; do. three-year 5s, 96 to 96 1/4; Consolidated Cotton Duck preferred, 24; Mt. Vernon Woodberry Cotton Duck 5s, 79 1/2 to 80 1/2; last sale at 80; G.-B.-S. Brewing, 3; do. incomes, 10 1/2; do. 1sts, 44 1/2.

Bank stock sold as follows: Citizens', 40; Bank of Baltimore, 122; Western, 15 1/2; Marine, 42.

Mercantile Trust sold from 137 to 136 1/2; United States Fidelity, 112; Fidelity & Deposit, 153 to 155; Continental Trust, 194.

Other securities were traded in thus: Atlantic Coast Line new 4s, certificates, 86 to 86 1/2; do. Connecticut 5-20s, 87 1/2 to 88; Atlanta Consolidated Street Railway 100, 105% to 105 1/4; Detroit United 4 1/2s, 85 1/2 to 84 1/2; Georgia, Carolina & Northern 5s, 106 to 105%; Norfolk Railway & Light 5s, 95% to 96; Norfolk Street Railway 5s, 106 to 105%; Maryland Telephone 1st 5s, 98 1/2 to 98 1/4; Atlantic Coast Line Consolidated 4s, 97; Carolina Central 4s, 93 1/2 to 93 1/4; Florida Southern 4s, 93; Georgia & Alabama Consolidated 5s, 103 to 102 1/2; Georgia Southern & Florida 5s, 109%; Virginia Midland 5th, 108 1/2 to 108 1/4; West Virginia Central 6s, 102%; Baltimore City 3 1/2s, 1930, 100%; Baltimore, Trace (N. B. Div.) 5s, 1942, 115; Central Ry. Con. 5s (Baltimore), 1932, 113; Central Ry. Ext. 5s (Baltimore), 1932, 113; Charleston Citr. Ry. 5s, 1927, 104; 104%; Charleston Con. Elec. 5s, 1999, 87 1/2 to 88%; City & Suburban 5s (Baltimore), 1922, 108 1/2 to 109 1/2; City & Suburban 5s (Wash.), 1948, 105 1/2 to 106.

Knoxville Traction 1st 5s, 1928, 104; Lake Roland Elevated 5s, 1942, 115; Lexington Railway 1st 5s, 1949, 96 to 99; Macon Ry. & Lt. 1st Con. 5s, 1955, 94 to 97; Maryland Elec. Ry. 5s, 1954, 95%; Memphis Street Railway 5s, 1954, 96%; Metropolitan 5s (Wash.), 1925, 110; Norfolk Railway & Light 5s, 95%; Norfolk Street Railway 5s, 1944, 105 to 106.

Virginia Midland 4th, 106 1/2 to 107 1/4; Wilmington & Weldon 5s, 114 1/4; City of Portsmouth 5s, 1924, 103 1/4; Maryland Telephone 5s, 98 1/4; Georgia Southern & Florida first preferred, 95; do. second preferred, 69 1/4; Consolidation Coal, 100 to 115; Baltimore Traction 5s, 112; Washington Terminal 3 1/2s, 92; Baltimore City 5s, 1916, W. L., 107; do. 3 1/2s, 1980, 94 1/4 to 94 1/2; Maryland, Delaware & Virginia preferred, 12; Western Maryland Railroad stock, 10; Florida West Short 5s, 86; Maryland & Pennsylvania 4s, 92 1/2; City & Suburban 5s, Baltimore, 109 1/4; Southern Railway, St. Louis Division, 4s, 89; Baltimore City 3 1/2s, 1928, 100%; Alabama Consolidated Coal & Iron 5s, 81; Augusta Railway & Electric 5s, 100%; City & Suburban (Washington) 5s, 105 1/2; Coal & Iron Railway 5s, 101; Maryland & Pennsylvania Terminal 5s, 100%; Western Pacific 5s, 95%; Charleston City Railway 5s, 104 1/2; Comas Cigarette Machine common, 6 1/4; Anacostia & Potomac 5s, 104; Atlantic Coast Line of Connecticut 5s, certificates, 107 1/2; Charleston Consolidated Electric 5s, 87 1/2; Maryland & Pennsylvania incomes, 62; Atlantic Coast Line of Connecticut 4s, certificates, 83 1/2.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended March 17, 1909.

Railroad Stocks.	Par	Bid	Asked
Atlantic Coast of Conn.	100	257 1/2	265
Georgia Sou. & Fla.	100	22	35
Georgia Sou. & Fla. 1st Pfd.	100	93 1/2	95 1/2
Georgia Sou. & Fla. 2d Pfd.	100	70	71
Norfolk Railway & Light.	25	19	...
Norfolk & Ports. Traction.	100	14	...
Seaboard Company Common.	100	12 1/2	13
Seaboard Company 1st Pfd.	100	41 1/2	42
Seaboard Company 2d Pfd.	100	23 1/2	25
United Rys. & Elec. Co.	50	11 1/2	11 1/2
Western Maryland.	50	28	30

Bank Stocks.
Citizens' National Bank.	10	39	40
First National Bank.	100	143	145 1/2
Maryland National Bank.	20	15	...
Merchants' National Bank.	100	170	...
National Bank of Baltimore.	100	...	123
National Exchange Bank.	100	...	163 1/2
National Howard Bank.	10	13	...
National Marine Bank.	30	41	43
National Mechanics' Bank.	10	29	...
Western National Bank.	20	35 1/2	35 1/2

Trust, Fidelity and Casualty Stocks.

American Bonding Co.	50	60	65
Colonial Trust.	50	50	58
Continental Trust.	100	193	196
Fidelity & Deposit.	50	153 1/2	155
Mercantile Trust & Deposit.	50	135 1/2	136 1/2
U. S. Fidelity & Guaranty.	100	119	112

Miscellaneous Stocks.

Ala. Con. Coal & Iron.	100	25	35
Ala. Con. Coal & Iron Pfd.	100	...	80
Con. Cotton Duck Common.	50	6 1/2	8
Con. Cotton Duck Pfd.	50	23 1/2	25 1/2
Con. Gas. Elec. Lt. & P. Pfd.	100	76	...
Consolidation Coal.	100	...	118
G.-B.-S. Brewing Co.	100	2	3
George Creek Coal.	100	83	90
Mer. & Miners' Trans. Co.	100	73	...

Railroad Bonds.

Atlantic Coast Line 1st 4s, 1952.	97	97 1/2	...
At. Coast Line new 4s, Ctr.	87	...	87
At. Coast Line (Conn.) 5s, Ctr.	107	110	...
At. Coast Line (Conn.) 4s, Ctr.	84	...	84
At. Coast Line (S. C.) 4s, 1948.	99 1/2	...	99 1/2
Carolina Central 4s, 1949.	93 1/2	...	93 1/2
Charlotte Col. & Aug. 1st 5s, 1910.	100	...	100
Coal & Iron Railway 5s, 1920.	100	102 1/2	...
Col. & Green 1st 6s, 1916.	100	110	...
Florida Southern 4s, 1940.	93 1/2	94	...
Georgia & Alabama 5s, 1943.	102 1/2	102 1/2	...
Georgia, Car. & North. 1st 5s, 1929.	100	105 1/2	...
Georgia Pacific 1st 6s, 1922.	114	116 1/2	...
Georgia South & Fla. 1st 5s, 1945.	100	100	100
Maryland & Pennsylvania 4s, 1951.	91 1/2	...	91 1/2
Petersburg Class A 5s, 1926.	110	112 1/2	...
Petersburg Class B 6s, 1926.	118	122 1/2	...
Piedmont & Cum. 1st 5s, 1911.	100	...	100
Potomac Valley 1st 5s, 1941.	103	...	103
Raleigh & Augusta 1st 6s, 1926.	114	...	114
Richmond & Dan			

Richmond Traction 5s.....	103 1/2	...
United Railways 1st 4s, 1949.....	87 1/2	87 1/2
United Rys. In. 4s, 1949.....	53 1/2	53 1/2
United Railways Funding 5s.....	79 1/2	80
Miscellaneous Bonds.		
Consolidated Gas 6s, 1910.....	102	102 1/4
Consolidated Gas 5s, 1939.....	111	111 1/2
Consolidated Gas 4 1/2s.....	90 1/2	90 1/2
Consolidation Coal Ref. 4 1/2s.....	94 1/2	95 1/2
Con. Gas, Elec. Lt. & P. 4 1/2s.....	83 1/2	84 1/2
Fairmont Coal 1st 5s.....	94 1/2	95
G. B.-S. Brewing 1st 4s.....	42%	43 1/4
G. B.-S. Brewing Inc. 4s.....	10 1/2	12
Maryland Telephone 5s.....	98 1/2	99
Mt. Vernon-Woodby's Cot. Duck 5s.....	79 1/2	80
United Elec. Lt. & P. 4 1/2s.....	95	96
Merchants' & Miners' Trans Co. 4s.....	97 1/2	100

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by Hugh MacRae & Co., Wilmington, N. C., for Week Ending March 15.

	Bld.	Asked.
Abbeville Cotton Mills (S. C.).....	75	82
Aiken Mfg. Co. (S. C.).....	145	145
American Spinning Co. (S. C.).....	50	60
Anderson Cotton Mills (S. C.).....	100	102
Arkwright Mills (S. C.).....	66	70
Augusta Factory (Ga.).....	115	125
Avondale Mills (Ala.).....	120	120
Bolton Mills (S. C.).....	114	114
Bibb Mfg. Co. (Ga.).....	148	148
Brandon Mills (N. C.).....	120	131
Cabarrus Cotton Mills (N. C.).....	86	90
Chadwick-Hoskins Mfg. Co. (N. C.).....	100	100
Chiquita Mfg. Co. (S. C.).....	130	132
Clifton Mfg. Co. (S. C.).....	103	106
Clifton Mfg. Co. (S. C.) Pfd.	99	101
Clinton Cotton Mills (S. C.).....	105	105
Columbus Mfg. Co. (Ga.).....	98	98
Courtenay Mfg. Co. (S. C.).....	94	96
Dallas Mfg. Co. (Ala.).....	100	105
Darlington Mfg. Co. (S. C.).....	70	76
Drayton Mfg. Co. (S. C.).....	100	100
Eagle & Phenix Mills (Ga.).....	121	121
Easley Cotton Mills (S. C.).....	151	160
Enoree Mfg. Co. (S. C.).....	59	69
Enoree Mfg. Co. (S. C.) Pfd.	90	94 1/2
Enterprise Mfg. Co. (S. C.).....	82	90
Exposition Cotton Mills (Ga.).....	240	240
Gaffney Mfg. Co. (S. C.).....	70	75
Gainesville Cotton Mills (Ga.).....	48	50
Granby Cot. Mills (S. C.) 1st Pfd.	50	50
Graniteville Mfg. Co. (S. C.).....	155	160
Greenwood Cotton Mills (S. C.).....	65	65
Grendel Mills (S. C.).....	114	118
Henrietta Mills (N. C.).....	160	175
King Mfg. Co. John P. (Ga.).....	96	100
Lancaster Cotton Mills (S. C.).....	125	146
Lancaster Cot. Mills (S. C.) Pfd.	96	96
Langley Mfg. Co. (S. C.).....	99	99
Laurens Cotton Mills (S. C.).....	137 1/2	137 1/2
Limestone Mills (S. C.).....	140	150
Lockhart Mills (S. C.).....	78	81
Loray Mills (N. C.) Pfd.	90	95
Marlboro Cotton Mills (S. C.).....	76 1/2	80
Mayo Mills (N. C.).....	165	185
Mills Mfg. Co. (S. C.).....	105	105
Mills Mfg. Co. (S. C.) Pfd.	109	109
Monahan Mills (S. C.).....	110	115
Monarch Cotton Mills (S. C.).....	100	102
Newberry Cotton Mills (S. C.).....	130	140
Norris Cotton Mills (S. C.).....	115	120
Olympia Cot. Mills (S. C.) 1st Pfd.	70	80
Orangeburg Mfg. Co. (S. C.) Pfd.	80	90
Orr Cotton Mills (S. C.).....	105	107
Pacolot Mfg. Co. (S. C.).....	120	126
Pelzer Mfg. Co. (S. C.) Pfd.	99	100
Piedmont Mfg. Co. (S. C.).....	171	175
Poel Mfg. Co. (S. C.).....	140	140
Richland Cot. Mills (S. C.) 1st Pfd.	46	50
Raleigh Cotton Mills (N. C.).....	100	100
Roanoke Mills (N. C.).....	100	100
Saxon Mills (S. C.).....	122	125
Sibley Mfg. Co. (Ga.).....	62 1/2	62 1/2
Spartan Mills (S. C.).....	132	140
Springate Mills (S. C.).....	100	100
Tucapau Mills (S. C.).....	225	250
Trion Mfg. Co. (Ga.).....	140	140
Union-Buffalo Mills (S. C.) 1st Pfd.	58 1/2	65
Victor Mfg. Co. (S. C.).....	120	125
Warren Mfg. Co. (S. C.).....	93 1/2	95
Warren Mfg. Co. (S. C.) Pfd.	100	100
Washington Mills (Va.).....	27	30
Washington Mills (Va.) Pfd.	120	120
Whitney Mfg. Co. (S. C.).....	140	140
Williamston Mills (S. C.).....	107	107
Wiscasset Mills (N. C.).....	125	135
Woodruff Cotton Mills (S. C.).....	124	130
Woodside Cotton Mills (S. C.).....	102	104
Woodside Cotton Mills (S. C.) Pfd.	96	100

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending March 15.

	Bld.	Asked.
Abbeville Cotton Mills (S. C.).....	70	70
Aiken Mfg. Co. (S. C.).....	82	82
American Spinning Co. (S. C.).....	145	150
Anderson Cotton Mills (S. C.).....	57	61
Arcadia Mills (S. C.).....	92	92
Arkwright Cotton Mills (S. C.).....	100	105
Augusta Factory (Ga.).....	65	70
Avondale Mills (Ala.).....	110	125
Bolton Mills (S. C.).....	116	116
Brandon Mills (S. C.).....	145	145
Cabarrus Cotton Mills (N. C.).....	120	130
Chadwick Mfg. Co. (N. C.).....	103	103
Chiquita Mfg. Co. (S. C.).....	127	130
Clifton Mfg. Co. (S. C.).....	104	104
Clifton Mfg. Co. (S. C.) Pfd.	99	103
Clinton Cotton Mills (S. C.).....	166	166
Columbus Mfg. Co. (Ga.).....	98	98
Courtenay Mfg. Co. (S. C.).....	97	97
Dallas Mfg. Co. (Ala.).....	95	95
Darlington Mfg. Co. (S. C.).....	70	75
Converse Co. D. E. (S. C.).....	112	112
Drayton Mills (S. C.).....	100	100
Eagle & Phoenix Mills (Ga.).....	120	137
Easley Cotton Mills (S. C.).....	145	150
Enoree Mfg. Co. (S. C.).....	50	63
Enoree Mfg. Co. (S. C.) Pfd.	100	100
Enterprise Mfg. Co. (Ga.).....	82	90
Exposition Cotton Mills (Ga.).....	240	240
Gaffney Mfg. Co. (S. C.).....	72	75
Gainesville Cotton Mills (Ga.).....	65	65
Granby Cot. Mills (S. C.) 1st Pfd.	45	45
Graniteville Mfg. Co. (S. C.).....	160	165
Greenwood Cotton Mills (S. C.).....	65	65
Grendel Mills (S. C.).....	109	118
Hartsville Cotton Mill (S. C.).....	122	125
Henrietta Mills (N. C.).....	160	175
Inman Mills (S. C.).....	105	110
Lancaster Cotton Mills (S. C.).....	110	125

Lancaster Cot. Mills (S. C.) Pfd.	91	96
Langly Mfg. Co. (S. C.).....	91	96
Laurens Mills (S. C.).....	140	140
Limestone Mills (S. C.).....	141	141
Lockhart Mills (S. C.).....	78	82
Lockhart Mills (S. C.) Pfd.	95	100
Loray Cotton Mills (N. C.) Pfd.	92	96
Marlboro Cotton Mills (S. C.).....	80	80
Mills Mfg. Co. (S. C.).....	100	100
Mollohon Mfg. Co. (S. C.).....	56	100
Monaghan Mills (S. C.).....	115	115
Monarch Cotton Mills (S. C.).....	100	103
Newberry Cotton Mills (S. C.).....	145	145
Ninety-Six Cotton Mills (S. C.).....	115	115
Norris Cotton Mills (S. C.).....	120	125
Odell Mfg. Co. (N. C.).....	90	90
Olympia Cotton Mills (S. C.).....	68	68
Orr Cotton Mills (S. C.).....	104	104
Pacolot Mfg. Co. (S. C.).....	160	160
Pelzer Mfg. Co. (S. C.) Pfd.	97	100
Pelzer Mfg. Co. (S. C.).....	150	157
Piedmont Mfg. Co. (S. C.).....	176	180
Poe Mfg. Co. F. W. (S. C.).....	126	130
Saxon Mills (S. C.).....	122	125
Sibley Mfg. Co. (Ga.).....	62	62
Spartan Mills (S. C.).....	132	135
Springate Mills (S. C.).....	100	100
Tucapau Mills (S. C.).....	225	250
Trion Mfg. Co. (Ga.).....	140	140
Union-Buffalo Mills (S. C.) 1st Pfd.	58 1/2	65
Victor Mfg. Co. (S. C.).....	120	125
Warren Mfg. Co. (S. C.).....	93 1/2	95
Warren Mfg. Co. (S. C.) Pfd.	100	100
Washington Mills (Va.).....	27	30
Washington Mills (Va.) Pfd.	120	120
Whitney Mfg. Co. (S. C.).....	140	140
Williamston Mills (S. C.).....	107	107
Wiscasset Mills (N. C.).....	125	135
Woodruff Cotton Mills (S. C.).....	124	130
Woodside Cotton Mills (S. C.).....	102	104
Woodside Cotton Mills (S. C.) Pfd.	96	100

G. Ogburn, cashier; J. S. Rice of Hous- ton, Dr. Marcus A. Weems, Dr. C. C. Hampill, Will M. Brooks and J. V. Hinkle.
Charleston, S. C.—Chartered: Colonial Building and Loan Association; capital \$120,000; T. T. Hyde, R. G. Rhett and W. C. Millar, incorporators.
Charleston, W. Va.—Chartered: Mul- lens Banking & Trust Co.; capital \$50, 000; incorporators, M. F. Matheny of Beckley, J. E. Chilton, W. A. MacCorkle, W. E. Chilton and T. S. Clark of Charleston.
Muldrow, Okla.—The Cherokee State Bank, which is a conversion of the First National Bank, has been granted a charter. R. W. Hines is president, and L. C. Moore, vice-president.

G. A. J. Mitchell. Business is expected
to begin about June 1 with Mr. Darnell,
president; Mr. Martin, vice-president, and
Mr. Smooth, cashier.

Mullens, W. Va.—Chartered: Mullens
Banking & Trust Co.; capital \$50,000;
incorporators, M. F. Matheny of Beckley,
J. E. Chilton, W. A. MacCorkle, W. E.
Chilton and T. S. Clark of Charleston.

Dallas, Texas.—Chartered: Farmers'
State Bank; capital \$25,000; incorpora-
tors, John Knight, T. V. McDonald
and L. V. Knight.

Dallas, Texas.—The Southland Life In-
surance Co. is reported to have begun busi-
ness; capital \$300,000. John T. Boone is
president, and among the stockholders are
E. M. Turner, W. T. Fakes, P. L. Campbell,
J. A. Dorsey, John F. Worley, Frank
P. Holland, Charles F. Bolanz, J. H.
Power, William Strong, F. S. Davis,
Kleber & Sons, S. Y. Matthews, John T.
Boone, J. A. Stephenson, W. A. Callaway,
E. L. Lancaster, T. H. Stephenson, J. B.
Stephenson, A. J. Sears, W. A. Matthews,
J. T. Boone, Jr., Ed. Kneeland, J. C.
Blair, Hugh L. Taylor, W. B. Anderson,
L. C. Craddock, Capt. J. B. Martin and
W. T. Spears.

Deport, Texas.—Chartered: First State
Bank of Deport; capital \$30,000; incor-
porators, G. I. Terrell, J. W. Cunningham,
J. R. Westbrook and others.

Edgewood, Texas.—Incorporated: Farmers
and Merchants' State Bank, capital
\$10,000, by W. H. Humphries, B. F.
Starnes, R. A. Scott and others.

Frankfort, Ky.—J. N. Camden, it is
stated, will establish a bank with \$500,000
capital.

Houston, Texas.—The Houston National
Bank has been authorized to begin
business; capital \$200,000; Henry S. Fox,
president; Henry S. Fox, Jr., and Joseph
F. Meyer, vice-presidents, and N. C. Mun-
ger, cashier.

Lenoir City, Tenn.—The Lenoir Bank &
Trust Co. is reported being organized
with \$25,000 capital.

Little Rock, Ark.—The State Building
and Loan Association, capital \$1,000,000,
has filed articles of incorporation; Charles
McKee, president; Fred Sutton, vice-
president; S. C. Bossinger, secretary; W.
McLaughlin, treasurer.

Altoona, Ala.—Incorporated: First State
Bank; capital \$25,000; directors, T. R.
Bynum is president; A. D. Thompson, first
vice-president; W. M. Ellison, second
vice-president; W. G. Davis, vice-president;
Dan Wybrants, cashier.

Macon, Ga.—W. E. Small and others are
reported to be organizing a new life insur-
ance company with \$1,000,000 capital.

Meridian, Miss.—Approved: American
National Bank; capital \$200,000; organiza-
tors, Sam Meyer, O. S. McCoy, A. J.
Lyon, A. H. George and W. Meeds.

Meridian, Miss.—The Meridian Clear-
ing House Association has organized with
Walker Broach, president; W. G. Somp-
son, vice-president, and R. C. Weems,
manager.

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\$100,000 to loan on first mortgage security at 6% in Charlotte and vicinity in amounts of \$2000 to \$20,000.

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John B. Dunn, Asst. Cashier.
Capital, \$1,500,000
Surplus and Profits, - - - \$900,000
Deposits, \$12,000,000

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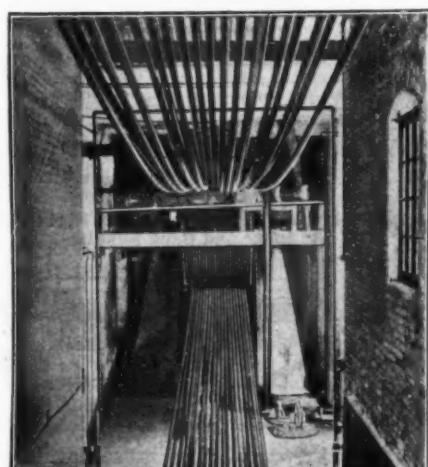
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Vice-President

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Secretary and Treasurer

WALTER D. FOCKE,

Asst. Sec. and Asst. Tres.

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July 15, 1908, Surplus and Profits, \$671,631.60

OFFICERS:

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SUMMERFIELD BALDWIN, Vice-Pres.

CHARLES W. DORSEY, Vice-Pres.

R. VINTON LANSDALE, Cashier.

WM. J. DELCHER, Asst. Cashier.

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Deposits.....\$7,900,000

Resources.....\$13,850,913

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Andrews, N. C.—J. Q. Barker, president Highway Commission, writes the MANUFACTURERS' RECORD that an election will be held March 22 to vote on \$25,000 of 21-30-year road bonds.

Anniston, Ala.—Reported that an election will soon be held in Calhoun county to vote on \$200,000 of road-improvement bonds.

Asheville, N. C.—The Fifth-Third National Bank of Cincinnati has purchased \$111,000 of 4½ per cent. 30-year Buncombe county funding bonds at 104.30.

Auburn, Ala.—All bids were rejected March 8 for the \$7000 of 5 per cent. 30-year water-works bonds.

Augusta, Miss.—Reported that \$30,000 of 5 per cent. Perry county highway improvement bonds have been awarded at par thus: Perry County Bank at New Augusta, \$15,000; Bank of Richton, \$15,000.

Bay City, Texas.—The State School Fund is reported to have purchased at par and accrued interest \$36,000 of 4 per cent. 10-40-year Matagorda county road and bridge bonds.

Beaumont, Texas.—An election will probably be held to vote on \$30,000 to \$50,000 of sewer bonds. P. A. Dowlen is chairman of the sewerage commission.

Bennettsville, S. C.—Reports state that \$10,000 of additional bonds for street improvements and sewer and water-works extensions will be issued.

Birmingham, Ala.—Bids will be received until noon April 8 for \$350,000 of 5 per cent. 30-year school bonds. H. E. Shropshire, Jr., is city clerk.

Blountville, Tenn.—The Legislature has passed a bill authorizing Sullivan county to issue an additional \$300,000 of road bonds.

Bonham, Texas.—Approved: \$800 of 4 per cent. 5-10-year Fannin county jail repair bonds.

Boydton, Va.—S. A. Kean & Co. of Chicago are reported to have purchased \$50,000 of 5 per cent. 22-year Mecklenburg county road bonds.

Cameron, S. C.—March 22 election will be held to vote on district school bonds.

Canton, N. C.—City is reported to have sold \$25,000 of street-improvement, \$25,000 of water-works and \$15,000 of school-building bonds.

Carthage, Mo.—Registered: \$220,000 of 5 per cent. 5-20-year water-works bonds.

Centralia, Mo.—The \$25,000 of school district high-school bonds are reported to have been purchased by the Mercantile Trust Co. of St. Louis at \$450 premium.

Chandler, Okla.—Voted: \$25,000 of 5 per cent. 25-year sewer bonds.

Charlotte, N. C.—Weil, Roth & Co., Cincinnati, have been awarded \$100,000 of 4½ per cent. 30-year bonds at a premium of \$4522. T. S. Franklin is Mayor.

Chattanooga, Tenn.—An election will probably be held March 25 to vote on \$30,000 of Mission Ridge water-works bonds.

Chattanooga, Tenn.—A bill is to be introduced in the City Council authorizing the issue of \$125,000 of funding bonds. The bill has passed the Legislature.

Clarksdale, Miss.—Reported that bids will be received until April 20 by the Board of Levee Commissioners of the Yazoo-Mississippi delta district for \$325,000 of 4½ per cent. 40-year refunding bonds.

Claude, Texas.—Armstrong county is reported to have purchased \$2500 of 5 per cent. 15-20-year bonds of school district No. 5.

Cookeville, Tenn.—March 27 an election will be held in Putnam county to vote on \$150,000 of road bonds. It is stated if the election carries that, upon proper application of 100 voters who own taxable property to the amount of \$100,-

000, an election will be ordered to vote on an additional \$100,000 of road bonds.

Conroe, Texas.—Approved: \$17,000 of water-works bonds.

Capitol Hill, Okla.—It is stated that the amount under consideration for public improvements is \$65,000. Another report states that an agreement has been made with M. L. Turner, president of the Western National Bank, to purchase the bonds.

Darlington, S. C.—Reported that an election will soon be held to vote on street and sidewalk improvement bonds.

Dawson, Ga.—An election will be held in Terrell county April 15 to vote on \$25,000 of bridge bonds.

Dresden, Tenn.—April 6 an election will be held to vote on \$30,000 of street bonds.

Excelsior Springs, Mo.—R. W. Morris & Co. of Kansas City have purchased \$10,000 of 5 per cent. 10-20-year improvement bonds.

Gaffney, S. C.—The election March 19 is for the purpose of voting on \$125,000 of 5 per cent. bonds.

Glasgow, Mo.—Bids will be received until noon March 23 by Ed. A. Wengler, Mayor, for \$8000 of 6 per cent. 5-20-year water-works bonds.

Haskell, Texas.—Approved: \$20,000 of 5 per cent. 5-40-year Haskell county jail bonds.

Honey Grove, Texas.—Bids will be received until May 1 by L. C. LaMaster for \$7000 of 5 per cent. 20-40-year street-improvement bonds.

Hominy, Okla.—Spitzer & Co. of Toledo are said to be the purchasers of the \$25,000 of school district building bonds at a premium of \$750.

Hubbard City, Texas.—The City Council will open bids March 22 for \$15,000 of 5 per cent. 10-40-year street and sewer bonds.

Indianola, Miss.—An election will be held March 19 to vote on \$10,000 of water-works bonds.

Jesup, Ga.—The election to vote on \$30,000 of 5 per cent. water-works and sewerage bonds will be held March 20.

Johnson City, Tenn.—The election to vote \$150,000 of Washington county road bonds was defeated.

Laurel, Miss.—It is now stated that in addition to the \$10,000 of street-improvement and \$10,000 of water-works extension bonds, the city also proposes to issue \$10,000 of school bonds.

Lebanon, Tenn.—Legislature is reported to have passed a bill authorizing \$20,000 of funding bonds.

Lockhart, Texas.—Election is to be held April 24 to vote on \$50,000 of road bonds of precinct No. 1.

Maplewood, Mo.—The \$35,000 of school district building bonds were defeated at the recent election. It is stated a new election will be held April 6 to vote on \$45,000 of 5 per cent. 20-year bonds.

Mart, Texas.—Bids will be received until 6 P. M. April 5 for \$50,000 of 5 per cent. 20-40-year water-works bonds. R. W. Bass is Mayor.

Maryville, Tenn.—Bill authorizing issue of water-works bonds reported passed by Legislature.

Memphis, Tenn.—The Legislature has passed a bill authorizing \$500,000 of school bonds instead of \$200,000, as previously reported.

Meridian, Miss.—Bids are to be asked for \$30,000 of 4½ per cent. 5-30-year school bonds.

Montgomery, Ala.—Reported that the City Council has authorized the sale of \$250,000 of 5 per cent. 30-year municipal bonds. W. F. Black is city clerk.

Moultrie, Ga.—April 15 election will be held to vote on \$20,000 of sewerage and \$5000 of street-improvement bonds.

Nashville, Tenn.—Bids will be received

until 3 P. M. April 16 for \$125,000 of 4½ per cent. 30-year suburban street bonds. H. S. Bauman is city recorder.

Newberry, S. C.—March 24 an election will be held to vote on \$40,000 of 5 per cent. 40-year school-building bonds. F. N. Martin is chairman board of trustees.

Norfolk, Va.—Reported that an ordinance has passed authorizing the issue of \$50,000 of 30-year refunding Fifth Ward improvement bonds.

Oxford, Miss.—The Bank of Oxford has purchased \$25,000 of paving bonds.

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Oxford, N. C.—The Legislature has passed a bill authorizing Granville county to issue \$100,000 of 5 per cent. 30-year road bonds.

Oklahoma City, Okla.—Reports state

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that the City Council has under consideration the question of increasing the sewer bond issue from \$150,000 to \$175,000.

Orange, Texas.—Reported that an election will be held in April to vote on \$14,000 of sanitary sewer system purchase bonds.

Pulaski, Va.—The MANUFACTURERS' RECORD is informed that bids will be received until 7 P. M. April 15 for \$40,000 of 5 per cent. 30-year light and water bonds. Address J. W. Miller, chairman finance committee.

Rockville, Md.—Bids will be received until March 20 by the commissioners of Montgomery county for \$20,000 of 4 per cent. pike bonds.

Ryan, Okla.—Reported that election will soon be held to vote on \$69,000 of water-works, sewerage and electric-light-plant bonds.

Sarasota, Fla.—Bids will be received by J. B. Turner, Wm. Jefecott and C. B. Wilson, bond trustees, until 2 P. M. April 27 for \$25,000 of 6 per cent. 30-year street-paving bonds.

Scullin, Okla.—An election is to be held, it is stated, to vote on \$10,000 of school district bonds.

Seguin, Texas.—It is reported that the Guadalupe county roads and bridges bond sinking funds have purchased at par \$15,000 of the \$20,000 of 4 per cent. 5-30-year Guadalupe county road bonds, and that the remaining \$5000 will be purchased by the State permanent school fund.

Temple, Texas.—Voted: \$50,000 of paving bonds.

Temple, Texas.—Voted: \$50,000 of paving bonds. It is stated as soon as the bonds are approved they will be placed on the market.

Texarkana, Texas.—The MANUFACTURERS' RECORD is informed that bids will be received March 31 by A. B. DeLoach, Mayor, for \$125,000 of school, \$5500 of jail and \$2500 of fire-station and \$3000 of street-improvement bonds.

Union, Mo.—An election will be held in Franklin county April 20 to vote on \$75,000 of 4½ per cent. 3-5-year courthouse and jail bonds.

Union Springs, Ala.—Voted: \$100,000 of Bullock county road bonds.

Velasco, Texas.—Approved: \$50,000 of 5 per cent. 20-40-year drainage district bonds.

Vicksburg, Miss.—Bids will be received until noon April 5 by J. D. Laughlin, county clerk, for \$7000 of 5 per cent. Warren county road and bridge bonds.

Webb City, Mo.—The \$90,000 of school district bonds have been purchased by Woodin, McNear & Moore of Chicago.

Wolfe City, Texas.—Bids will be received until April 5 for \$2500 of 5 per cent. 20-40-year water-improvement bonds. E. S. Royal is Mayor.

Woodward, Okla.—Voted: \$75,000 of school-building bonds.

Wynnewood, Okla.—Voted: \$6000 of City Hall and \$14,000 of water-works and lighting-plant bonds.

At Pulaski, Va., bids will be received until 7 P. M. April 15 for \$40,000 of 5 per cent. 30-year light and water bonds. Further particulars will be found in the advertising columns.

At Texarkana, Texas, bids will be received until March 31 for \$125,000 of school, \$5500 of jail, \$2500 of fire-station and \$3000 of street-improvement 5 per cent. bonds. Further particulars will be found in the advertising columns.

Financial Notes.

The Bank of Emanuel at Swainsboro, Ga., is occupying its new home.

The First National Bank of Lexington, Ky., is reported to have added a stock and bond department.

The Union Bank & Trust Co. of Nash-

ville, Tenn., will, it is reported, increase its capital from \$200,000 to \$300,000.

It is reported that the Citizens' State Bank of McLean, Texas, proposes to increase its capital from \$10,000 to \$15,000.

The capital of the Exchange National Bank of Tampa, Fla., is reported to have been increased from \$100,000 to \$250,000.

The Continental Bank of Booneville, Texas, is reported to have been converted into a State bank. Sine Holley is president.

Reports state that \$2000 of courthouse and jail 3 per cents and \$3000 of 5 per cent. Williamson county bonds have been paid off.

The annual convention of the Georgia Bankers' Association will be held at Savannah, Ga., in May or June. A later report states that the convention will probably be held May 27 and 28.

Reported that from November 27, 1908, to February 5, 1909, there was an increase in the number of State banks in Oklahoma from 546 to 574, and individual deposits increased more than \$5,700,000.

The Southern Savings Bank of Wadesboro, N. C., reports that it has added \$2000 to its surplus fund after the payment of dividend. John T. Patrick is president; T. L. Caudle, vice-president; W. M. Morton, cashier, and W. P. Ledbetter, assistant cashier.

A recent summary of the condition of State banks in Mississippi shows loans and discounts, \$37,270,140; due from other banks, \$11,446,344; cash on hand, \$4,195,136; capital paid in, \$12,614,690; surplus, \$2,727,460; undivided profits, less expenses and taxes, \$1,566,349; individual and time certificates of deposit, \$3,908,899; due other banks, \$589,609; total resources, \$63,286,412.

A condensed statement of 311 savings, private and State banks in North Carolina at close of business February 5, 1909, shows loans and overdrafts discounts, \$33,042,443; due from banks and bankers, \$7,265,416; capital stock paid in, \$7,552,252; surplus fund, \$1,714,427; undivided profits, \$1,431,500; time and demand certificates of deposit, \$7,033,399; deposits subject to check, \$23,564,445; due to banks and bankers, \$860,894; savings deposits, \$3,154,405; total resources, \$48,954,015.

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FOR "CLASSIFIED OPPORTUNITIES" See Pages 76 and 77

Abbott & Co., F. C.	11	C	Draper, R. W.	78	Huther Bros. Saw Mfg. Co.	72	Merchants Warehouse Co.	72	
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Alberger Pump Co.	11	Cameron & Barkley Co.	20	DuPont De Nemours Powder Co., E. I.	41	Milne, M.	10		
Alpha Photo-Engraving Co.	95	Campbell, Thos. J.	82	E	Eagle Wagon Works.	87	Minneapolis Steel & Mch. Co.	91	
Alpha Portland Cement Co.	22	Canton Art Metal Co., The.	73	East Bangor Cone, slate Co.	36	Mitchell Clay Mfg. Co.	12		
Alpha Slate Co., The.	36	Canton Bridge Co.	85	Edison Co., Jacob.	73	Monarch Road Roller Co.	87		
Aleing Engineering Co., J. R.	*	Canton Culver Co.	107	Eco Magna Glass Co.	23	Monitor Sim. Gen's Mfg. Co.	4		
American Bridge Company of New York.	34	Carborundum Co.	113	Edison Portland Cement Co.	24	Moore-Handley Hdw. Co.	82		
American Cast Iron Pipe Co.	102	Cardwell Machine Co.	13	Edwards Manufacturing Co.	39	Moran Flexible Stin Joint Co.	10		
American Cement Co.	22	Carlins's Sons Co., Thomas.	65	Eggleston, Howard.	20	Morris & Co.	21		
American Cotton Co.	132	Carnegie Steel Co.	29	Electric Cable Co.	117	Morris & Scott, G.	10		
American Engg. Co.	45	Carrel, George.	78	Enterprise Electric Co., The.	106	Morris Machine Wks.	10		
American Engg. & Switch Co.	85	Carolina Asbestos Mfg. Co.	4	Ephrata Flyr. & Mch. Wks.	85	Morrison Light & Water Co.	81		
American Hoist & Derrick Co.	97	Carolina Ice Mach. Co., The.	12	Erie Pump & Engine Co.	108	Morse Chain Co.	17		
American Investment Association.	*	Carolina Portland Cement Co.	22	Etchen Co.	2	Morse, William & Co.	17		
American Iron & Steel Mfg. Co.	102	Caroline Iron Works.	5	Euroco Fire Hose, Mfg. Co.	12	Mundt & Son, Inc.	81		
American Laundry Machinery Mfg. Co.	109	Carpenter Tap & Die Co., J. M.	102	Eureka Machine Co.	21	Mundt & Sons, Chas.	101		
American Locomotive Co.	86	Carter Electric Co., W. E.	17	Eureka Supply Co.	25	Muralt & Jo.	10		
American Luxfer Prism Co.	38	Carter, J. W.	78	Eurogas Iron Works, The.	110	Murphy Company, John.	120		
American Machine Co.	19	Carter, Shirely.	78	Expoqlo Canal Commission.	77	Murray Iron Works Co.	5		
American Mch. & Mfg. Co.	112	Cavey Superior Limestones Co.	10	F	Isthmian Canal Commission.	77	Myers & Bro., F. E.	105	
American Mfg. Co.	71	Carver Cotton Gin Co.	40	J	Jayne, David A.	*	N	Sachsenmaier, George.	8
American Pipe Mfg. Co.	105	Carver File Co.	120	Jeffrey Mfg. Co.	10	Nanz Clock Co., B.	76	Safety & Petree Machine Shop.	10
American Process Co.	22	Casey, Joseph Huntley.	104	Jett Bros.	120	Nashville Hardwood Floor Co.	10	Saginaw Mfg. Co.	10
American Pulley Co.	17	Castell & Trefny.	20	Jewett, Bigelow & Brooks.	2	Salem Foundry & Mch. Wks.	10		
American Pulverizer Co.	100	Castner, Curran & Bulilit.	41	Johnson, Manville Co., H. W.	9	Samuel, Frank.	91		
American Railway Supply Co.	75	Caverty, Inc., Robert B.	82	Johnson Co., E. J.	32	Saunder's Sons, D.	91		
American Rolling Mill Co.	31	Central Foundry Co.	105	Jones & Laughlin Steel Co.	102	Savannah Blow Pipe Co.	41		
American Safety Lamp Mine & Supply Co.	*	Central Hotel.	116	Jones & Co., L. E.	71	Sawyer Loco. Wks. & Sup. Co.	10		
Amer. Saw Mill Mch. Co.	109	Central Metal & Supply Co.	115	Jones, W. F.	78	Scalfe & Sons Co., W. B.	10		
Amer. School of Correspondence.	*	Central of Georgia Railway.	93	K	Kaiser & Co., A. V.	82	Schaefer, G.	91	
American Sheet & Tin Plate Co.	38	Chamber Bros. Co.	93	Kaiser, Louis E.	75	Scalford Engineering Co.	91		
American Spiral Pipe Works.	105	Charlotte Plaster Co.	28	Karber & Co., H.	80	Scalfe & Williams, M.	111		
American Steel & Wire Co.	27	Chase Flyr. & Mch. Co.	83	Kansas City Elevator Mfg. Co.	34	Seaboard Air Line Railway.	114		
American Stoker Co.	8	Chase Turbine Mfg. Co.	109	Farris Bridge Co.	34	Selden-Breck Construc. Co.	20		
American Stone Co.	40	Chattanooga Boiler & Tank Co.	102	Fendis & Co., Albert.	80	Sellers & Co., Inc., Wm.	95		
American Supply Co. of Providence.	111	Chattanooga Iron & Wire Wks.	35	Fernholz Brick Mch. Co.	93	Semet-Solvay Co.	44		
Amer. Saw Mill Mch. Co.	109	Chattanooga Paint Co.	16	Ferracuti Mch. Co.	102	Senter Manufacturing Co.	13		
Anderson Macalain & Foundry Co.	102	Chesapeake Beltine Works.	34	Fidelity & Deposit Co. Md.	71	Seyfert's Sons, Inc., L. F.	22		
Andrews, Perry.	108	Chesapeake Iron Works.	34	Fitzpatrick, John.	82	Shand Engineering Co.	20		
Anschutz, H.	80	Chesapeake Steamship Co.	95	Fitzroy Mfg. Co.	19	Shaw Co., Benjamin F.	21		
Aquabur Co. The.	*	Ches. & Ohio Coal & Coke Co.	41	Foley, C. O.	97	Shelby Steel Tube Co. (see National Tube Co.)	6		
Armitage Mfg. Co.	36	Chester Steel Casting Co.	89	Fox, Gas Engine Co., The.	100	Shelby, W. E.	20		
Arnold Co., The.	20	Chicago & Alton Railroad Co.	104	Fox, Mfg. Co.	113	Shimel & Sons, Samuel J.	10		
Arundel Sand & Gravel Co.	40	Chicago Coal Co.	117	Fort Wayne Electric Works.	12	Sibey-Mengs Press Brick Co.	40		
Ash Grove Lime & Portland Cement Co.	22	Chicago Concrete Mach. Co.	24	Fort Wayne & Wabash Valley Traction Co.	28	Simons-Mayrant Co.	36		
Asheville Real Estate Co.	80	Chicago Foundry Tool Co.	91	Foster, Inc. Incandescent Lamp Co.	20	Simpson Roofing Co.	10		
Atlanta, B'ham & Atlantic R.R.	116	Chicago Pneumatic Tool Co.	91	Fox, J. M. Ewing.	95	Sinclair Laundry Mach'y. Co.	109		
Atlanta Utility Works.	30	Chilean & Argentine Steel Co.	47	Fox, John D.	30	Sinclair-Scott Co.	17		
Atlanta Electric Co.	117	Chilean Iron Works Co.	100	Franks, J. E.	83	Sinamahoning Powder Mfg. Co.	41		
Atlanta Engineering Co.	117	Chinle Coal Corporation.	2	Clinton & Jacob, Mfg. Co.	3	Sirocco Engineering Co.	89		
Atlanta Portland Cement Co.	19	Clint-Surface Co.	16	Clilburn, Lincoln & Co.	2	Skidmore, Owings & Merrill.	21		
Audit Co. of New York.	23	Clyde Iron Works.	97	Coates, E. J.	83	Smith, E.	20		
Austin Mfg. Co.	101	Concord & Thomas E.	28	Coates, G.	83	Shimel & Sons, Samuel J.	10		
Austin-Western Co., Ltd.	87	Consolidated Coal, Duck Co.	120	Concordia L.	14	Sibey-Mengs Press Brick Co.	40		
Avery Co.	87	Consolidated Rosendale Cement Co.	44	Concordia, L.	14	Simons-Mayrant Co.	36		
B		Consolidation Coal Co.	41	Concordia, L.	14	Simpson Roofing Co.	10		
Babcock & Wilcox Co.	5	Continental Pipe & Equip. Co.	83	Consolidated Coal Co.	41	Sinclair Laundry Mach'y. Co.	109		
Badger & Sons Co., E. B.	113	Continental Gin Co.	*	Concordia, L.	14	Sinclair-Scott Co.	17		
Bailey, H. M.	98	Continental Port. Cement Co.	21	Concordia, L.	14	Sinamahoning Powder Mfg. Co.	41		
Bailey-Leiby Co.	120	Contractor's Plant Mfg. Co.	99	Concordia, L.	14	Sirocco Engineering Co.	89		
Baldwin Locomotive Works.	89	Cook, J. W.	10	Concordia, L.	14	Skidmore, Owings & Merrill.	21		
Baltimore Audit Co.	73	Cook's Sons, Adm.	10	Concordia, L.	14	Smith, J. E.	21		
Baltimore Belting Co.	73	Cook, Well Co.	106	Concordia, L.	14	Smith, J. E.	21		
Baltimore Bridge Co.	34	Coopey Co., G. & G.	106	Concordia, L.	14	Smith, J. E.	21		
Baltimore Cooperage Co.	42	Coneland-Indira ShaleBrickCo.	40	Concordia, L.	14	Smith, J. E.	21		
Baltimore Office Supply Co.	95	Cordeaman Rechting Co.	26	Concordia, L.	14	Smith, J. E.	21		
Baltimore Steam Packet Co.	95	Corrugated Box Co.	26	Concordia, L.	14	Smith, J. E.	21		
Baltimore Trust & Guarantee Co.	*	Cortright Metal Rolling Co.	30	Concordia, L.	14	Smith, J. E.	21		
Bandy, Myers.	*	Cosby, Clarence.	30, 81, 81, 87	Concordia, L.	14	Smith, J. E.	21		
Bank of Richmond.	*	Cothran, Cothran.	102	Concordia, L.	14	Smith, J. E.	21		
Barber & Abbott Paving Co.	*	Cotton States Belt & Sup. Co.	112	Concordia, L.	14	Smith, J. E.	21		
Barber & Abbott, Inc.	*	Cowling, John P.	102	Concordia, L.	14	Smith, J. E.	21		
Barnard & Leas Mfg. Co.	107	Cowper, T.	102	Concordia, L.	14	Smith, J. E.	21		
Barnett Co., G. & H.	120	Creamer, Pacific Mfg. Co.	*	Concordia, L.	14	Smith, J. E.	21		
Barrett Mfg. Co.	*	Creson Co., George V.	17	Concordia, L.	14	Smith, J. E.	21		
Bartlett & Snow Co., G. O.	18	Crocker-Wheeler Co.	118	Concordia, L.	14	Smith, J. E.	21		
Bates' Sons, James.	6	Crook & Kries & Co.	21	Concordia, L.	14	Smith, J. E.	21		
Bay State Iron Works.	*	Crosby Steam Gage & Valve Co.	6	Concordia, L.	14	Smith, J. E.	21		
Bebben, C.	*	Crucible Steel Casting Co.	102	Concordia, L.	14	Smith, J. E.	21		
Bell Company Inc., J. P.	73	Curry, W. H.	79	Concordia, L.	14	Smith, J. E.	21		
Belmont Iron Works, Inc.	73	Cutter Manufacturing Co.	116	Concordia, L.	14	Smith, J. E.	21		
Benjamin Electric Mfg. Co.	*	Cypress Lumber Co.	42	Concordia, L.	14	Smith, J. E.	21		
Bennett Rub. Stamp & Seal Co.	*	D		Concordia, L.	14	Smith, J. E.	21		
Bentz & Son, F. W.	*	Dake Engine Co.	97	Concordia, L.	14	Smith, J. E.	21		
Bird, J. A. & W.	*	Dale, Park A.	21	Concordia, L.	14	Smith, J. E.	21		
Birmingham Rail & Loco. Co.	*	Dallman, Corp. & Co., The.	*	Concordia, L.	14	Smith, J. E.	21		
Bisbal Mch. Co.	91	Dart Mfg. Co., E. M.	*	Concordia, L.	14	Smith, J. E.	21		
Blake Mfg. Co. The Geo. F.	*	Davenport Locomotive Works.	80	Concordia, L.	14	Smith, J. E.	21		
Bliss Co., E. W.	104	Davey & Sons, W. O.	90	Concordia, L.	14	Smith, J. E.	21		
Block-Pollak Iron Co.	55	Davies, Frank.	85	Concordia, L.	14	Smith, J. E.	21		
Bloome Co., Rudolph S.	*	Davis Drilling & Prospecting Co.	*	Concordia, L.	14	Smith, J. E.	21		
Blythe, Richard A.	73	Davidson Foundry & Mach. Wks.	107	Concordia, L.	14	Smith, J. E.	21		
Bolles Iron & Wire Works, J. E.	73	Davis, Frank. H.	82	Concordia, L.	14	Smith, J. E.	21		
Bonar & Borchert Press Co.	75	Davis, Son, G. M.	42	Concordia, L.	14	Smith, J. E.	21		
Boret & Company.	*	Dayton, Globe Iron Works Co., The.	*	Concordia, L.	14	Smith, J. E.	21		
Boston Incandescent Lamp Co.	119	Dean Bros. Steam Pump Wks.	108	Concordia, L.	14	Smith, J. E.	21		
Bourse, The.	3	Decatur Corp. & Roofing Co., Inc.	34	Concordia, L.	14	Smith, J. E.	21		
Bowen, Joseph E.	*	DeLaval Steam Turbine Co.	12	Concordia, L.	14	Smith, J. E.	21		
Box & Co., Alfred.	*	Delaware Fidelity Trust Co.	12	Concordia, L.	14	Smith, J. E.	21		
Box 14, Auburndale, Fla.	*	Delaware Trust Co.	72	Concordia, L.	14	Smith, J. E.	21		
Bx 148, Charlotte N. C.	*	DeLoach, A. B.	77	Concordia, L.	14	Smith, J. E.	21		
Boden, A. H.	78	Deming Co.	107	Concordia, L.	14	Smith, J. E.	21		
Borden, Edwin.	*	Des Moines Bridge Iron Co.	*	Concordia, L.	14	Smith, J. E.	21		
Brockdorff-Wescon Rope Co.	18	Desert Graphite Co.	*	Concordia, L.	14	Smith, J. E.	21		
Brown, James L.	20	Detroit Leather Specialty Co.	*	Concordia, L.	14	Smith, J. E.	21		
Brown & Geibel.	*	Detroit Lubricator Co.	41	Concordia, L.	14	Smith, J. E.	21		
Brown Housing Mch. Co.	*	Dewine, J. F.	44	Concordia, L.	14	Smith, J. E.	21		
Brownell Co., The.	*	Diamond Rubber Co.	11	Concordia, L.	14	Smith, J. E.	21		
Brunswick Steamship Co.	109	Dickey, John W.	71	Concordia, L.	14	Smith, J. E.	21		
Buckeye Electric Co.	119	Dimick Pipe Co.	106	Concordia, L.	14	Smith, J. E.	21		
Buckeye Iron & Brass Works.	112	Direct Separator Co.	*	Concordia, L.	14	Smith, J. E.	21		
Bucyrus Company, The.	87	Dixie Electro Magnet Co.	112	Concordia, L.	14	Smith, J. E.	21		
Buffalo Forge Co.	43	Dixie Portland Cement Co.	23	Concordia, L.	14	Smith, J. E.	21		
Buffalo Steam Pump Co.	87	Dixie Seal & Stamp Co.	75	Concordia, L.	14	Smith, J. E.	21		
Bullard, F. P.	*	Dixie Seal & Machine Co.	120	Concordia, L.	14	Smith, J. E.	21		
Burke & Gregory.	73	Dodge & Machine Co.	*	Concordia, L.	14	Smith, J. E.	21		
Burnett & Owen.	*	Dodge & Day.	*	Concordia, L.	14	Smith, J. E.	21		
Burr & Son, John T.	*	Dodge & Day.	*	Concordia, L.	14	Smith, J. E.	21		
Burr & Son, John T.	*	Huber, J. K.	102	Concordia, L.	14	Smith, J. E.	21		
Burrages Adding Mch. Co.	113	Huber Mfg. Co.	*	Concordia, L.	14	Smith, J. E.	21		
Burrs Engineering Co.	113	Hudson Engineering Co.	*	Concordia, L.	14	Smith, J. E.	21		
Byers Machine Co., John F.	*	Hughes Specialty Well Drill.	119	Concordia, L.	14	Smith, J. E.	21		
Byers Machine Co., John F.	*	Hughes, C. R.	*	Concordia, L.	14	Smith, J. E.	21		
C		Hicks Locomotive & Car Wks.	85	Concordia, L.	14	Smith, J. E.	21		
Draper Co.	111	Hirsch & Sons Iron & Rail Co.	*	Concordia, L.	14	Smith, J. E.	21		
Draper, R. W.	*	Hirsch Rolling Mill Co.	84	Concordia, L.	14	Smith, J. E.	21		
Druil Oak Belting Co.	*	Hobbs-Evans Machine & Mchinery Co., Inc.	*	Concordia, L.	14	Smith, J. E.	21		
Dubois Iron Works.	*	Hodges, E.	*	Concordia, L.	14	Smith, J. E.	21		
Dufur & Co.	*	Hodges, E.	*	Concordia, L.	14	Smith, J. E.	21		
Dunning, W. D.	*	Hodges, E.	*	Concordia, L.	14	Smith, J. E.	21		
DuPont De Nemours Powder Co., E. I.	*	Hodges, E.	*	Concordia, L.	14	Smith, J. E.	21		
Hyde Bros. & Co.	*	Hodges, E.	*	Concordia, L.</					

77
-
12
80
80
19
109
84
10
14
44
44
26
09
10
82
9
2
20
24
03
82
82
11
17
16
81
95
43
83
19
80
35
15
73
5
32
20
+
93
36
11
14
21
35
44
13
82
20
21
•
6
20
10
40
21
38
09
17
41
89
21
18
40
20
‡
4
07
26
09
21
32
‡
09
22
22
43
93
6
20
87
72
16
•
15
22
12
6
91
19
09
37
16
11
89
49
04
•
84
93
20
04
2
85
22
17
35
33
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2
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09
43
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